CALIFORNIA STATE UNIVERSITY
LONG BEACH

department of
PHYSICAL THERAPY

Courses

Physical Therapy course descriptions are available via the Online University Catalog . The entire CSU Long Beach official catalog is available on-line as PDF (Portable Document Format) files. This is an exact copy of the catalog that can be purchased through the University Bookstore and is the official advising document for CSU Long Beach.

You will need to use Adobe's free Acrobat Reader to view the graduate course descriptions. It is recommended that you use Acrobat Reader 4.0 or a later version. If you have not yet installed this useful helper application, please click the "Get Acrobat Reader" button to surf to Adobe's web site and download Acrobat Reader.

CSULB DPT Curricular Sequence

Updated May 5 2015

Summer Session I, Year 1		Units
DPT 701a	Anatomy I	2
DPT 704	Tissue Mechanics	2
DPT 720	Prof Interactions	3
Fall, Year 1		
DPT 705	Biomech Principles	3
DPT 706	Physiology	6
DPT 707	Lifespan	2
DPT 701c	anatomy III	2
DPT 721	Prof Practice issues	2
DPT 708	Motor control/Irng	2
Summer Session I, Year 2		
DPT 750	Imaging	2
DPT 765	Mgmt Integ	2
DPT 796	Research Methods	2
DPT 780a	Ortho practice I	1
Fall, Year 2		
DPT 733	MS Interventions	4
DPT 741	Neuro Intervent I	3
DPT 743	ENMG I: peripheral	2
DPT 751	Pharmacology	2
DPT 760	Mgmt CardoPulm	3
DPT 782	Neuro practice I	1
DPT 797	Doctoral Project	1
Summer Session I, Year 3		
DPT 784	6 wk clin pract II	3
Fall, Year 3		
Fall: First 10 weeks		
DPT 746	Advanced Mgmt NM	1
DPT 767	Mgmt Geri	2
DPT 768	Pathophysiology	3
DPT 769	Advanced Mgmt CP	1
DPT 797	Doctoral project	1
DPT 780b	Ortho practice II	1
Fall: last 5 weeks/Winter		
DPT 785	12 wk clin internship	6

Summer Session III, Year 1		Units
DPT 701b	Anatomy II	2
DPT 703	Neuroanatomy	3
Spring, Year 1		
DPT 709	Ex Science	3
DPT 710	Pathology	3
DPT 735	Gait	2
DPT 732	MS exam	3
DPT 740	Neuro Exam	2
DPT 731	Acute care principles	2
Summer Session III, Year 2		
DPT 722	Critical Thinking	1
DPT 781	6 wk clinical Pract I	3
Spring, Year 2		
DPT 734	Advance mgmt MS	2
DPT 736	Prosthetics & Orthotics	2
DPT 744	ENMG II: central	2
DPT 745	Mgmt Peds	3
DPT 791	Current trends	1
DPT 770	Health Care Delivery I	2
DPT 783	Neuro practice II	1
DPT 797	Doctoral Project	2
Summer Session III, Year 3		
DPT 742	Neuro intervent II	1
DPT 752	Diff Dx	2
DPT 771	Health Care Del II	2
Spring, Year 3		
DPT 786	12 wk clin internship	6
Graduate spring		**115 units**

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PHYSICAL THERAPY

College of Health and Human Services

Department Chair: Jody Cormack

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Faculty: George Beneck, Joyce Campbell, Kay Cerny, Jody Cormack, Kristin De Mars, Vennila Krishnan, Olfat Mohamed, Jeff Rodrigues, Albert C. Russo, Nina Surber, Hsiang-Ling (Sharon) Teng

Department Coordinators: Gloria Dacanay, Michelle Ramirez

Doctor of Physical Therapy

The program is designed to prepare the student for entry-level doctoral practice as a physical therapist. Graduates are employed in a variety of settings, including hospitals, rehabilitation centers and private physical therapy clinics. The Doctor of Physical Therapy program is open to all college graduates who have met prerequisite requirements and demonstrate sufficient preparation, potential for professional education and ability to perform the essential functions needed to practice as a physical therapist as determined by physical therapy faculty review of admission documents. Admission shall be granted on a competitive basis; meeting the admission requirements qualifies an individual for, but does not guarantee admission to the program.

Admission Requirements

1. Complete the university application to be admitted with graduate standing by the deadline of January 15 and complete the PTCAS application by the application deadline November 1 for admission the following summer.
2. Submit to the university and PTCAS results of the General Aptitude Section of the Graduate Record Examination (quantitative, verbal, and analytical), taken within the past 5 years.
3. Provide PTCAS with three letters of recommendation attesting to the potential for success as a physical therapist and/or the scholarly potential of the applicant;
   - At least one letter must be from a physical therapist with whom the applicant had a professional association, and
   - One from a professor for a prerequisite course which the applicant completed.
   - If the applicant previously has been employed, the third letter should be from an employer.
   - If the applicant previously has not been employed, the third letter should be from a physical therapist with whom the applicant had a professional association.
4. Provide documentation of knowledge of physical therapy through a minimum of 100 documented hours of paid or volunteer experience under the direct supervision of a licensed physical therapist; and
5. Provide a written statement of purpose reflecting the applicant's commitment to physical therapy.
6. Meet prerequisite requirements

Prerequisites

1. Hold, or be eligible to hold, an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by an appropriate campus authority, by the end of the spring semester prior to admission to the program.
2. Have attained a cummulative grade point average of at least 3.0 (A=4.0),
3. Have been in good academic, professional, and clinical standing at the last institution and if applicable in the last entry-level physical therapist educational program attended,
4. Successfully have completed the following courses with a minimum of "C" and a minimum grade point average of 3.0 by the end of the fall semester prior to the year of admission to the program. No course may be repeated more than once and no more than 3 prerequisite courses may be repeated. CR/NC grades, correspondence courses, or independent study courses cannot be used for prerequisite requirements. Only 2 classes may be in progress during the fall semester of application and all prerequisite courses must be completed by the end of the Fall semester of application.

Natural Sciences:

Take all of the following courses:

CHEM 111A General Chemistry (5)
Prerequisites: A passing score on the Chemistry Placement Examination.
Corequisite: MATH 109 or higher.

CHEM 111B General Chemistry (5)
Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.

PHYS 100A General Physics (4)
Prerequisite: MATH 109 or MATH 113 or MATH 119A or MATH 120 or MATH 122.

PHYS 100B General Physics (4)
Prerequisite: MATH 109 or MATH 113 or MATH 119A or MATH 120 or MATH 122; PHYS 100A.

Biological Sciences:

Take all of the following courses:

BIOL 208 Human anatomy (4)
Prerequisites: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

BIOL 211 Introduction to Evolution and Diversity (4)
Prerequisite/Corequisite: CHEM 111A with a grade of "C" or better.

BIOL 212 Introduction to Cell and Molecular Biology (4)
Prerequisites: Completion of BIOL 211 and CHEM 111A with grades of "C" or better.
Prerequisite/Corequisite: CHEM 111B

Take either the following courses:

BIOL 207 Human Physiology (4)
Prerequisites: GE Foundation requirements.

or

BIOL 213 Introduction to Ecology and Physiology (4)
Prerequisites: BIOL 211, BIOL 212, CHEM 111B, each with a grade of "C" or better.

Biostatistics:

Take the following:

BIOL 260 Biostatistics (3) (preferred)
Prerequisites: BIOL 201 or BIOL 207 or BIOL 211 or MICR 200; MATH 111 or MATH 113 or MATH 119A or MATH 122 all with a grade of "C" or better.

Behavioral Sciences:

Take the following:

PSY 100 General Psychology (3)
Prerequisite/Corequisite: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100, ASAM 100, CHLS 104, ENGL 100S or ALI 150 or ALP 150 or equivalent.

Admission shall be granted on a competitive basis; meeting the admission requirements qualifies an individual for, but does not guarantee admission to the program.

Retention

1. Maintain a 3.0 or better grade point average in all graduate work completed.
2. Make continuous satisfactory progress toward the degree objective.

Advancement to Candidacy

1. Satisfy the general University requirements for advancement to candidacy.
2. Obtain classified status.
3. Have earned a minimum 3.0 grade-point average in all program graduate work as well as a minimum overall 3.0 in all graduate work attempted.
4. Fulfill the Graduation Writing Assessment Requirement (GWAR) by scoring 11 or higher on the Writing Proficiency Exam (WPE) or earning a score of 4.0 on the Analytical Writing Component of the GRE.
5. Complete a minimum of one semester (fall session) of graduate level coursework in the program.
6. Be enrolled during the term in which advancement to candidacy takes place.
7. Obtain approval for one's individual program plan from the Graduate Advisor and then from the Associate Dean of the College of Health and Human Services.

Qualifying Assessment

1. Successfully complete the Doctoral Project Proposal Paper and Oral Presentation.
2. Earn good standing in the clinical education program (beginner status on Clinical Performance Instrument [CPI] for DPT 781).
3. Demonstrate adherence to the essential physical, emotional and professional practice expectations of a physical therapist in the classroom and clinic (entry level on CPI skills 1 and 2 for DPT 781, acceptable practice in DPT 731, DPT 733 and DPT 741)

Requirements for Clinical Coursework

Criminal background check, health insurance, titers and immunizations, medical clearance, malpractice insurance, CPR certification (lifesaving course with lab), and adhering to the department essential functions are required for clinical coursework.

Admittance to Terminal Clinical Internships

Successfully complete Didactic Curriculum

Degree Requirements

The Doctor of Physical Therapy degree program is a 116-unit, three year, full-time cohort program including summer sessions that includes terminal internship of 12 units.

Core:

Take all of the following courses:

DPT 701A Anatomy for Physical Therapy I (2)
Prerequisites: Admission to DPT program.

DPT 701B Anatomy for Physical Therapy II (2)
Prerequisite: DPT 701A.

DPT 701C Anatomy for Physical Therapy III (2)
Prerequisite: DPT 701B.

DPT 703 Neuroanatomy (3)
Prerequisite: DPT 701A. Corequisite: DPT 701B.

DPT 704 Tissue Mechanics (2)
Corequisite: DPT 701A.

DPT 705 Biomechanical Principles (3)
Prerequisite(s): DPT 701A, DPT 701B
Corequisite(s): DPT 701C.

DPT 706 Physiology for Therapists (6)
Prerequisite: Admission to the DPT program.

DPT 707 Physical Therapy across the Life Span (2)
Prerequisite(s): DPT 701A and DPT 701B
Corequisite(s): DPT 701C.

DPT 708 Motor Learning and Motor Control (2)
Prerequisite: Admission to DPT program.

DPT 709 Exercise Science for Physical Therapy (3)
Prerequisite(s): DPT 701A, DPT 701B, DPT 701C, DPT 704, DPT 706.

DPT 710 Pathology for Physical Therapy (3)
Prerequisite: Admission to DPT program.

DPT 720 Professional Interactions (3)
Prerequisite: Admission to DPT program.

DPT 721 Professional Practice Issues (2)
Prerequisite: DPT 720.

DPT 722 Critical Thinking for Physical Therapy (1)
Prerequisites: DPT 720, DPT 721.

DPT 731 Physical Therapy Principles of Acute Care (2)
Prerequisite(s): DPT 701A, DPT 701B, DPT 701C, DPT 703.

DPT 732 Examination of Individuals with Musculoskeletal Disorders (3)
Prerequisite: DPT 705.

DPT 733 Interventions for Individuals with Musculoskeletal Disorders (4)
Prerequisites: DPT 705, DPT 732.

DPT 734 Advanced Management of Individuals with Musculoskeletal Disorders (2)
Prerequisites: DPT 705, DPT 732, DPT 733.

DPT 735 Normal and Pathological Gait (2)
Prerequisite: DPT 705.

DPT 736 Management of Individuals with Orthotic and Prosthetic Needs (2)
Prerequisites: DPT 732, DPT 735.

DPT 737 Sports Rehabilitation in Physical Therapy (2)
Prerequisite: DPT 734.

DPT 740 Evaluation of Individuals with Neuromuscular

Disorders (2)
Prerequisite: DPT 703.

DPT 741 Intervention for Individuals with Neuromuscular Disorders I (3)
Prerequisites: DPT 740. Corequisite: DPT 782.

DPT 742 Intervention for Individuals with Neuromuscular Disorders II (1)
Prerequisites: DPT 740, DPT 741.

DPT 743 Electroneuromyographic Management I (2)
Prerequisite(s): DPT 701C and DPT 703.

DPT 744 Electroneuromyographic Management II (2)
Prerequisite: DPT 743.

DPT 745 Management of the Pediatric Population (3)
Prerequisites: DPT 707, DPT 740.

DPT 746 Advanced Management of Individuals with Neuromuscular Disorders (1)
Prerequisites: DPT 740, DPT 741, DPT 742.

DPT 750 Imaging for Physical Therapists (2)
Prerequisites: DPT 710, DPT 732.

DPT 751 Pharmacology for Physical Therapists (2)
Prerequisite: Admission to DPT program.

DPT 752 Differential Diagnosis for Physical Therapists (2)
Prerequisites: DPT 743, DPT 750, DPT 751.

DPT 760 Management of Individuals with Cardiopulmonary Disorders (3)
Prerequisites: DPT 706, DPT 709.

DPT 765 Management of Individuals with Integumentary Disorders (2)
Prerequisites: DPT 710.

DPT 767 Management of the Geriatric Population (2)
Prerequisites: DPT 733, DPT 734, DPT 741,DPT 760.

DPT 768 Clinical Pathophysiology (3)
Prerequisites: DPT 707, DPT 710, DPT 731, DPT 750, DPT 751, DPT 752.

DPT 769 Advanced Management of Individuals with Cardiopulmonary Disorders (1)
Prerequisite: DPT 760.

DPT 770 Health Care Delivery I (2)
Prerequisites: DPT 721, DPT 722.

DPT 771 Health Care Delivery II (2)
Prerequisite: DPT 770.

DPT 780A Orthopedic Integrated Clinical Experience I (1)
Prerequisite: DPT 732.

DPT 780B Orthopedic Integrated Clinical Experience II (1)
Prerequisite: DPT 732, DPT 733, DPT 734.

DPT 781 Full Time Clinical Experience I (3)
Prerequisites: DPT 731, DPT 732, DPT 735, DPT 740.

DPT 782 Neurological Integrated Clinical Experience I (1)
Prerequisite: DPT 740. Corequisite: DPT 741.

DPT 783 Neurological Integrated Clinical Experience II (1)
Prerequisite: DPT 782.

DPT 784 Full Time Clinical Experience II(3)
Prerequisites: DPT 733, DPT 734, DPT 741, DPT 760, DPT 781.

DPT 796 Research Methods (2)
Prerequisite: Admission to DPT program.

Take a total of 6 units of each of the following:

DPT 785 Clinical Internship I (6)
Prerequisites: DPT 752, DPT 781, DPT 784.

DPT 786 Clinical Internship II (6)
Prerequisites: DPT 781, DPT 784, DPT 785.

Take a total of 4 units of the following:

DPT 797 Doctoral Project (1-4)
Prerequisite: DPT 796.

Elective:

DPT 791 Current Trends in Physical Therapy (1)
Prerequisite: Admission to DPT program or consent of instructor.

Doctor of Physical Therapy Courses (DPT)

701A. Anatomy for Physical Therapy I (2)

Prerequisites: Admission to DPT program.

Course Description: Advanced study of the structure and function of the neuromusculoskeletal systems including surface contour, myology, joint structure, and neurovascular supply. Regional emphasis concentrates on the upper extremity.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours) Not open to students with credit in DPT 701A.

701B. Anatomy for Physical Therapy II (2)

Prerequisite: DPT 701A.

Advanced study of the structure and function of the neuromusculoskeletal systemsincluding surface contour, myology, joint structure, and neurovascular supply. Regional emphasis concentrates on the lower extremity.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours) Not open to students with credit in DPT 701B.

701C. Anatomy for Physical Therapy III (2)

Prerequisite: DPT 701B.

Continuation of DPT 701A and DPT 701B. Advanced study of the structure and function of the neuromusculoskeletal systems with emphasis on surface contour, myology, joint structure, and neurovascular supply. Regional emphasis concentrates on the head, neck and trunk.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

703. Neuroanatomy (3)

Prerequisite: DPT 701A.
Corequisite: DPT 701B.

Human neuroanatomy with emphasis on the structure and function of the central nervous system, and connecting peripheral pathways for human function and movement. Neuroanatomical and vascular lesions will be discussed with emphasis on differential diagnosis and neuropathology.

Letter grade only (A-F). Lecture/discussion 2 hours, laboratory 3 hours)

704. Tissue Mechanics (2)

Corequisite: DPT 701A.

Advanced study of tissue (bone, muscle, dense fibrous connective tissue, cartilage, nerve) mechanics and pathomechanics including use and disuse with application to joint mechanics.

Letter grade only (A-F). (Lecture/discussion 2 hours)

705. Biomechanical Principles (3)

Prerequisite(s): DPT 701A, DPT 701B

Corequisite(s): DPT 701C.

Advanced study of joint mechanics and pathomechanics with application to therapeutic procedures, posture and movement of the limbs, temporomandibular joint, neck and trunk.

Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours)

706. Physiology for Therapists (6)

Prerequisite: Admission to the DPT program.

Advanced study of the mechanisms of function of the organ systems of the human body and the contribution of these systems to organismal homeostasis. Systems studied include the nervous, endocrine, musculoskeletal, sensory, cardiovascular, respiratory and renal.

Letter grade only (A-F). (Lecture/discussion 6 hours)

707. Physical Therapy Across the Life Span (2)

Prerequisite(s): DPT 701A and DPT 701B

Corequisite(s): DPT 701C.

Investigation and analysis of human development across the lifespan with emphasis on body systems contributing to the development of movement. Also addresses health risks, preventive strategies and wellness, including gender issues.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

708. Motor Learning and Motor Control (2)

Prerequisite: Admission to DPT program.

Theories and models of motor control and mechanisms underlying plasticity related to functional movement across the lifespan. Theories and models of normal and impaired motor learning (implicit and explicit), including application of concepts to feedback and practice in physical therapy.

Letter grade only (A-F). (Lecture/discussion 2 hours)

709. Exercise Science for Physical Therapy (3)

Prerequisite(s): DPT 701A, DPT 701B, DPT 701C, DPT 704, DPT 706.

Study of systems challenged and altered by exercise in health and pathology. Includes exercise measurement, exercise prescription and intervention and strength and conditioning preparation.

Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours)

710. Pathology for Physcial Therapy (3)

Prerequisite: Admission to DPT program.

Advanced study of abnormal function as a result of disease. Includes general pathology and selected systems pathology, encompassing cardiovascular, pulmonary, musculoskeletal, peripheral and central nervous systems, and integumentary systems.

Letter grade only (A-F). (Lecture/discussion 3 hours)

720. Professional Interactions (3)

Prerequisite: Admission to DPT program.

Self-awareness of how personality, learning preferences, and personal values affect professional interactions. Includes effective communication, conflict resolution, and eliciting patient values and goals. Also, communicating with patients who have experienced disability, sexual dysfunction, or issues with coping or dying.

Letter grade only (A-F). (Lecture/discussion 3 hours)

721. Professional Practice Issues (2)

Prerequisite: DPT 720.

Focus on professionalism and professional values including evidence-based practice, the critical analysis of evidence, and cultural competence. Also the role of the physical therapist in facilitation of health care behavior change and educating patients and the community.

Letter grade only (A-F). (Lecture/discussion 2 hours)

722. Critical Thinking for Physical Therapy (1)

Prerequisites: DPT 720, DPT 721.

Critical thinking models and activities to promote problem solving and decision making in the physical therapy setting.

Letter grade only (A-F). (Lecture/discussion 1 hour)

731. Physical Therapy Principles of Acute Care (2)

Prerequisite(s): DPT 701A, DPT 701B, DPT 701C, DPT 703.

Patient management in the acute care setting with emphasis on interpretation of laboratory values and physiological monitoring as the basis for functional training and use of assistive devices. Includes physical agents and introduction to wheelchair seating and positioning.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

732. Examination of Individuals with Musculoskeletal Disorders (3)

Prerequisite: DPT 705.

Physical therapist examination and evaluation for individuals with musculoskeletal disorders. Includes examination (history, screening, tests and measures), evaluation, diagnosis, prognosis, anticipated goals, expected outcomes, re-examination, and criteria for discharge.

Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours)

733. Interventions for Individuals with Musculoskeletal Disorders (4)

Prerequisites: DPT 705, DPT 732.

Plan of care for the individual with musculoskeletal system disorders that is safe, effective and patient centered. Includes monitoring and adjusting plan of care, patient education, documentation, and use of supportive personnel.

Letter grade only (A-F). (Lecture/discussion 3 hours, laboratory 3 hours)

734. Advanced Management of Individuals with Musculoskeletal Disorders (2)

Prerequisites: DPT 705, DPT 732, DPT 733.

Physical therapist management of individuals with musculoskeletal disorders. Includes examination, evaluation, diagnosis, prognosis, expected outcomes, re-examination, and criteria for discharge. Includes safe, patient-centered plan of care, patient education, documentation, and use of supportive personnel.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

735. Normal and Pathological Gait (2)

Prerequisite: DPT 705.

Kinematics and kinetics of normal and pathological gait with emphasis on critical analysis of gait deviations and their causes in preparation for intervention.

Letter grade only (A-F). (Lecture 1 hour, laboratory 3 hours)

736. Management of Individuals with Orthotic and Prosthetic needs (2)

Prerequisites: DPT 732, DPT 735.

The prescription, application, and fabrication of devices and equipment (orthotic, prosthetic, supportive splinting, and taping).

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

737. Sports Rehabilitation in Physical Therapy (2)

Prerequisite: DPT 734

Physical therapy examination, evaluation, and intervention for athletes with sport related injuries. Includes examination, evaluation, diagnosis, prognosis, expected outcomes, re-examination, and criteria for discharge.

Letter grade only (A-F). (4 hours of activity)

740. Evaluation of Individuals with Neuromuscular Disorders (2)

Prerequisite: DPT 703.

Physical therapist examination and evaluation for individuals with neuromuscular disorders. Includes examination (task and movement analysis, tests and measures for body structure and function, activity, and participation) evaluation, diagnosis, prognosis, anticipated goals, expected outcomes, re-examination, and criteria for discharge.

Letter grade only (A-F). (Lecture 1 hour, laboratory 3 hours)

741. Intervention for Individuals with Neuromuscular Disorders I **(3)**

Prerequisites: DPT 740.
Corequisite: DPT 782.

Intervention for individuals with disorders of the central neuromuscular system. Planning and implementation of plan of care that is safe, effective and patient centered; monitoring and adjusting plan of care; patient education; documentation; use of supportive personnel.

Letter grade only (A-F). (Lecture 1 hour, laboratory 3 hours)

742. Intervention for Individuals with Neuromuscular Disorders II (1)

Prerequisites: DPT 740, DPT 741.

Intervention for individuals with disorders of the spinal cord and peripheral nerves. Planning and implementation of plan of care that is safe, effective and patient centered; monitoring and adjusting plan of care; patient education; documentation; use of supportive personnel.

Letter grade only (A-F). (Laboratory 3 hours)

743. Electroneuromyographic Management I (2)

Prerequisite(s): DPT 701C and DPT 703.

Physiological and neurological basis for the selection of electroneuromyographic [ENMG] assessment and intervention in the management of neuromusculoskeletal and peripheral nerve disorders.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

744. Electroneuromyographic Management II (2)

Prerequisite: DPT 743.

Physiological and neurological basis for the selection of electroneuromyographic [ENMG] assessment and intervention in the management of central nervous system and mixed central and peripheral nervous system disorders.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

745. Management of the Pediatric Population (3)

Prerequisites: DPT 707, DPT 740.

Physical therapist management of the pediatric individual with neuromusculoskeletal disorders. Includes examination, evaluation, diagnosis, prognosis, expected outcomes, re-examination, and criteria for discharge. Includes safe,patient-centered plan of care, patient education, documentation, and use of supportive personnel.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

746. Advanced Management of Individuals with Neuromuscular Disorders (1)

Prerequisites: DPT 740, DPT 741, DPT 742.

Physical therapist advanced management of individuals with complex neurologic disorders. Integrates and advances knowledge and skills related to evaluation and intervention. Includes community re-integration, home assessment, and management of the complex patient.

Letter grade only (A-F). (Lecture/discussion 1 hour)

750. Imaging for Physical Therapists (2)

Prerequisites: DPT 710, DPT 732.

Knowledge and skills of radiology and imaging necessary for a comprehensive evaluation to design a rehabilitation program. Includes roentgenograms, dynamic and static MRI, CT, scintillography, PET, ultrasound, bone densitometry, and radioisotopes.

Letter grade only (A-F). (Lecture/discussion 2 hours)

751. Pharmacology for Physical Therapists (2)

Prerequisite: Admission to DPT program.

Study of the method of action, indications, contraindications and side effects of drugs commonly used by patients seen in physical therapy. Includes knowledge and skills necessary to perform a comprehensive evaluation necessary to design a rehabilitation program.

Letter grade only (A-F). (Lecture/Discussion 2 hours)

752. Differential Diagnosis for Physical Therapists (2)

Prerequisites: DPT 743, DPT 750, DPT 751.

Anatomical and physiological basis for patient screening to determine if referral to a medical doctor is required in the event that a medical condition supersedes or mimics a condition requiring physical therapy intervention.

Letter grade only (A-F). (Lecture/discussion 2 hours)

760. Management of Individuals with Cardiopulmonary Disorders (3)

Prerequisites: DPT 706, DPT 709.

Physical therapist management of individuals with cardiovascular and pulmonary disorders. Includes examination, evaluation, diagnosis, prognosis, expected outcomes, and criteria for re-examination and discharge. Includes safe, patient-centered plan of care, patient education, documentation and use of supportive personnel.

Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours)

765. Management of Individuals with Integumentary Disorders (2)

Prerequisites: DPT 710.

Physical Therapy management of individuals with integumentary (skin) disorders including examination, evaluation, diagnosis, prognosis, intervention, re-examination and criteria for discharge.

Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

767. Management of the Geriatric Population (2)

Prerequisites: DPT 733, DPT 734, DPT 741,DPT 760.

Physical therapy management of the geriatric patient/client including examination, evaluation, diagnosis, prognosis and intervention with anticipated goals, expected outcomes, criteria for discharge and re-examination.

Letter grade only (A-F). (Lecture/discussion 1 hours, laboratory 3 hours)

768. Clinical Pathophysiology (3)

Prerequisites: DPT 707, DPT 710, DPT 731, DPT 750, DPT 751, DPT 752.

Pathophysiology of connective tissue in musculoskeletal, neuromuscular, cardiopulmonary and integumentary disorders as a basis for physical therapy evaluation, diagnosis, goal setting and conservative as well as pre and post-operative intervention in patients with multiple systemic disorders.

Letter grade only (A-F). (Lecture/discussion 3 hours)

769. Advanced Management of Individuals with Cardiopulmonary Disorders (1)

Prerequisite: DPT 760.

Advanced management of individuals with cardiovascular and pulmonary disorders. Includes integration of cardiovascular and pulmonary disorders with other disorders commonly treated by physical therapists.

Letter grade only (A-F). (Lecture/discussion 1 hour)

770. Health Care Delivery I (2)

Prerequisites: DPT 721, DPT 722.

Investigation of the health care delivery system including the legal, regulatory, political, ethical and professional duties of Physical Therapists. Includes laws and regulations governing compliant human management and environmental safety.

Letter grade only (A-F). (Lecture/discussion 2 hours)

771. Health Care Delivery II (2)

Prerequisite: DPT 770.

Investigation of the process of planned direction, organizational theory and management, and economics and fiscal management of physical therapy delivery including marketing and promotion.

Letter grade only (A-F). (Lecture/discussion 2 hours)

780A. Orthopedic Integrated Clinical Experience I (1)

Prerequisite: DPT 732.

Supervised clinical practice for management of the client with disorders of the musculoskeletal system. Includes examination, evaluation, intervention, written and verbal communication, advocacy, and client/family caregiver education.

Letter grade only (A-F). (Clinic 1 hour)

May be repeated in different semesters to a maximum of 2 units.

780B. Orthopedic Integrated Clinical Experience II (1)

Prerequisites: DPT 732, DPT 733, DPT 734.

Supervised clinical practice for management of the client with disorders of the musculoskeletal system. Includes examination, evaluation, intervention, written and verbal communication, advocacy, and client/family caregiver education.

Letter grade only (A-F). (Clinic 1 hour)

May be repeated in a different semester to a maximum of 2 units.

781. Full Time Clinical Experience I (3)

Prerequisites: DPT 731, DPT 732, DPT 735, DPT 740.

Six weeks of supervised full-time clinical practice in the acute care or outpatient physical therapy setting. Includes examination, evaluation, intervention, advocacy, and client/family caregiver education.

Credit/No Credit grading only. May be repeated in different semesters to a maximum of 6 units in different semesters. (Clinical Practice 6 weeks)

782. Neurological Integrated Clinical Experience I (1)

Prerequisite: DPT 740.
Corequisite: DPT 741.

Supervised pro bono clinical practice for management of the client with disorders of the neuromusculoskeletal systems. Includes examination, evaluation, intervention, advocacy, and client/family caregiver education.

Grading: Letter grade only (A-F). May be repeated in different semesters to a maximum of 2 units. (Clinic 1 hour)

783. Neurological Integrated Clinical Experience II (1)

Prerequisite: DPT 782.

Supervised advanced pro bono clinical practice for management of the client with disorders of the neuromusculoskeletal systems. Includes examination, evaluation, intervention, advocacy, and client/family caregiver education. Focus on problem solving and decision making.

Letter grade only (A-F). May be repeated in different semesters to a maximum of 2 units. (Clinic 1 hour)

784. Full Time Clinical Experience II (3)

Prerequisites: DPT 733, DPT 734, DPT 741, DPT 760, DPT 781.

Six weeks of supervised full-time clinical practice in an inpatient or outpatient physical therapy setting. Includes examination, evaluation, intervention, advocacy, and client/family caregiver education.

Credit/No Credit Grading only. May be repeated in different semesters to a maximum of 12 units. (Clinical Practice 6 weeks)

785. Clinical Internship I (6)

Prerequisites: DPT 752, DPT 781, DPT 784.

Six weeks of supervised full-time clinical practice in an inpatient or outpatient physical therapy setting. Includes examination, evaluation, intervention, advocacy, and client/family caregiver education.

Credit/No Credit Grading only. May be repeated to a maximum of 12 units in the same semester. (Clinical Practice 6 weeks)

786. Clinical Internship II (6)

Prerequisites: DPT 781, DPT 784, DPT 785.

Six weeks of supervised full-time clinical practice in an inpatient or outpatient physical therapy setting. Includes examination, evaluation, intervention, advocacy, and client/family caregiver education. Setting will be different from DPT 785 internship.

Credit/No Credit Grading only. May be repeated to a maximum of 12 units in the same semesters. (Clinical Practice 6 weeks)

790. Selected Topics in Physical Therapy (1-3)

Prerequisite: Admission to DPT program or consent of instructor.

Topics of current interest in physical therapy selected for special presentation.

Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters. Topics announced in the *Schedule of Classes*.

791. Current Trends in Physical Therapy (1)

Prerequisite: Admission to DPT program or consent of instructor.

Current trends in physical therapy selected for special presentation.

Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters. Practice trend announced in the *Schedule of Classes*.

796. Research Methods (2)

Prerequisite: Admission to DPT program.

Scientific inquiry with emphasis on information searching. Includes epidemiology, research design, measurement theory, applied statistics, critical inquiry and clinical decision-making guidelines, research ethics, and the examination of research intended to validate physical therapy practice.

Letter grade only (A-F). (Lecture/discussion 2 hours)

797. Doctoral Project (1-4)

Prerequisite: DPT 796.

Research in an area of specialization in physical therapy under the direction of a faculty sponsor.

Letter grade only (A-F). A total of 4 units must be completed. May be repeated to a maximum of 4 units in different semesters.