

KIN 797 **2 credits**
Supervised Practice: Food Service Management

For students accepted into the Department of Nutrition Sciences Dietetic Internship. Students will gain experience in managing the diet office, tray line production and supervision, food service production, cafeteria management, and catering. Corequisites: KIN 796 and KIN 798.

KIN 798 **2 credits**
Supervised Practice: Clinical Nutrition and Dietetics

For students accepted into the Department of Nutrition Sciences Dietetic Internship. Students will gain the skills required to screen and assess individual patients, interpret laboratory values, develop and implement appropriate care plans, complete appropriate diet instructions, and document all assessment and plan information in correct medical chart format. Corequisites: KIN 797 and KIN 798.

The following courses have been approved for graduate credit. Full descriptions of these courses may be found in the *Undergraduate Catalog* under the corresponding 400 number.

CLS 612	Clinical Immunology
CLS 613	Clinical Immunology Laboratory
CLS 614	Transfusion - Immunohematology
CLS 615	Transfusion Medicine Immunohematology Laboratory
CLS 622	Clinical Hematology I
CLS 623	Clinical Hematology Laboratory I
CLS 624	Clinical Hematology II
CLS 625	Clinical Hematology Laboratory II
CLS 632	Clinical Microbiology I
CLS 633	Clinical Microbiology Laboratory I
CLS 634	Clinical Microbiology II
CLS 635	Clinical Microbiology Laboratory II
CLS 642	Clinical Chemistry I
CLS 643	Clinical Chemistry I Laboratory
CLS 644	Clinical Chemistry II
CLS 645	Clinical Chemistry II Laboratory
CLS 653	Seminar in CLS IV
CLS 681	Clinical Practicum in Hematology
CLS 682	Clinical Practicum in Chemistry
CLS 683	Clinical Practicum in Immunohematology
CLS 684	Clinical Practicum in Microbiology
CLS 685	Advanced Clinical Practicum
KIN 601	History of Exercise and Sport Science
KIN 605	Sports Nutrition
KIN 614	Enhancing Mental and Motor Abilities
KIN 615	Introduction to Forensic Kinesiology
KIN 685	Physical Activity and the Law
KIN 691	Exercise Physiology
KIN 692	Clinical Exercise Physiology
KIN 695	Sports Medicine

Physical Therapy

Chair

McWhorter, J. Wesley (2000), Chair, Physical Therapy, Associate Professor; B.S., Ph.D., Brigham Young University; MPT, Baylor School of Physical Therapy.

Graduate Coordinator

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Graduate Faculty

Altenburger, Elizabeth (2000), Instructor, B. S. Purdue University; M.S. University of Miami Medical School.

Schuerman, Sue (2006), Assistant Professor; B.S., University of Nebraska; M.B.A., University of Massachusetts, Ph.D., University of Nebraska.

Landers, Merrill (2001), Assistant Professor; B.S., Brigham Young University; DPT, Creighton University.

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The Department of Physical Therapy offers a graduate program leading to a Doctor of Physical Therapy (DPT) degree. The program is designed to prepare students to plan and administer treatment to help patients regain diminished physical function lost secondary to injury or disease, to promote soft tissue healing, and to relieve pain. By determining the degree of impairment, physical therapists are then able to help patients return to full function by using various physical agents such as electrical stimulation, heat, and cold to decrease pain and by using therapeutic exercises to increase strength, endurance, and coordination.

The purpose of the Department of Physical Therapy is to provide students pursuing a career in physical therapy the opportunity to acquire the knowledge and skills required for the safe practice of physical therapy. Students are prepared as generalists, but also have some opportunity to investigate specialized aspects of physical therapy through numerous clinical exposures. The program of study consists of approximately 111 credit hours of graduate course work and consists of intense academic and clinical work spread over six semesters and three summers. These hours are divided between classroom, clinical and research activities.

The DPT is an entry-level professional program designed to provide individuals with appropriate baccalaureate degrees the knowledge and skills to develop clinical and research expertise in the provision of physical therapy. Upon receiving this degree, students will be eligible to sit for the licensure examination in physical therapy.

The mission of the program is to develop competent, independent practitioners who will serve the community and the profession by practicing clinical physical therapy in a variety of health care settings for clients of all ages. The program is designed to educate students in a foundation of the basic sciences and emphasizes didactic, clinical, managerial, and research components. Graduate studies are augmented through clinical practicums and clerkships, which provide the student an opportunity to integrate

academic education with practical experience in particular areas of concentration. Graduates of the program will be proficient in critical thinking and skilled in evidence-based integrated treatment approaches. An additional goal of the program is to provide services to rural and under-served populations.

Admission Requirements

Admission to the program is limited to 20 available spaces per class. Students enrolling in any class in the Department of Physical Therapy must be admitted (graduate standing only, no graduate provisional standing accepted) to the program in the Summer semester of each year. Since enrollment is limited in the Physical Therapy program, satisfactory completion of prerequisite courses does not assure an applicant of admission. No student may take any class as a “Nondegree Seeking” student. Admissions criteria are reviewed by the faculty annually and are subject to change.

The following requirements are considered for admission into the Doctor of Physical Therapy program:

1. Prior to entering the program, candidates must complete prerequisite courses and earn a baccalaureate degree from an accredited college or university. There is no preference given to any particular baccalaureate degree.
2. A minimum overall undergraduate grade point average of 2.75 on a 4.0 scale with a minimum average of 3.0 on a 4.0 scale for prerequisite courses.
3. A composite score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE) is preferred. A score of 4 out of 6 is recommended on the Analytical Writing Section of the GRE.
4. Three letters of recommendation are required. Two of the letters need to be from a licensed physical therapist who can evaluate the applicant’s potential as a student in the physical therapy program. The remaining letter can be from a former professor or employer.
5. An autobiographical statement of approximately 300 words describing the student’s professional goals and reasons for seeking graduate education in physical therapy.
6. Knowledge of the field through actual work or volunteer experience (a minimum of 200 hours or more divided among hospital and outpatient facilities). Additional hours in diversified settings are strongly recommended.
7. An interview may be required.

Information to be submitted to the Graduate College:

1. An application with appropriate fee.
2. Official transcripts from all previous college and professional schools.
3. Official scores from the Graduate Record Examination (GRE). Information to be submitted to the Department of Physical Therapy: 1. Official transcripts from all previous college and professional schools. 2. Three letters of recommendation.
3. The autobiographical statement.
4. A completed Prerequisite Form (included in the application packet).

5. A completed Observation Form (included in the application packet). Prior to application to the program, the individual is advised to fully explore the nature of the profession of physical therapy. Students are expected to volunteer in or visit various physical therapy facilities in order to gain a broad view of the roles and responsibilities of a physical therapist. As part of the interview process, students will be assessed on their knowledge of the scope of the profession of physical therapy. Application forms are available from the Graduate College. The application deadline is January 31 preceding the June in which admission is desired. After applications are received, they are reviewed regarding the minimum requirements, i.e., baccalaureate degree, GPAs, etc. Only the leading candidates will be invited for interviews during the Spring semester, which are based on satisfactory completion of the admission requirements.

The program is open to qualified applicants without regard to race, color, religion, sex, sexual orientation, age, national origin, marital status, or the presence of any physical, sensory, or mental disability.

Prerequisite Courses

In addition to completing the requirements of a baccalaureate degree, applicants must have completed or be able to complete the necessary specific hours of prerequisite course work with a grade of at least a C prior to admission to the program. Grades below a C in prerequisite courses will not be accepted. No more than two prerequisite science courses should be in progress or incomplete and all prerequisite science courses must be completed by the end of the spring semester (quarter) prior to commencing the program. Those students in the process of fulfilling the requirements of a prerequisite course must realize that their acceptance into the program is contingent upon satisfactory completion of that course during the application process.

Courses taken on a pass-fail basis may not fulfill prerequisite requirements. Individuals submitting prerequisite course work completed prior to 1985 should contact the Admissions Committee to determine if the course work is appropriate to fulfill prerequisite course requirements, which are as follows:

1. One year of lecture-based biology courses
2. One year of laboratory and lecture-based anatomy and physiology courses
3. One year of laboratory and lecture-based inorganic chemistry
4. One year of laboratory and lecture-based physics
5. One semester of exercise physiology
6. One year psychology (introduction to psychology and one semester of either child, adolescent, developmental or abnormal psychology)
7. One semester statistics
8. One semester oral communication

Advisement

All entering students will be assigned a specific faculty member for the purpose of program planning and advising.

Policies and Procedures

Policies and procedures for didactic and clinical work regarding course grades, probation, separation, and reapplication are detailed in the Department of Physical Therapy *Student Manual and Clinical Education Manual*.

Progression

To progress in the Physical Therapy Program students must adhere to the following guidelines:

1. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
2. Receive a grade of B- or above in all required physical therapy courses. Students who do not maintain a 3.00 average or who receive any grade less than a B- in any course at the end of the semester will be notified in writing and placed on probation at that time. A second grade of C+ or lower received in any course in the ensuing semester or failure to restore the cumulative average to 3.00 or above during the ensuing semester will bring about separation from the program. The student's status in the program will be determined the Chair/Director on the recommendation of the Academic Review Committee (ARC) regarding the student's separation or action plan for remediation.
3. The student will not progress in the program if any of the following occur:
 - a. An earned F in any didactic course. This results in immediate separation without the option for reapplication.
 - b. Failure of a third attempt of any clinical competency check-off with the exception of the final practical exam.
 - c. A failure of a final practical exam (different than the competency check-off).
 - d. A grade of C+ or below in more than one course in any semester.
 - e. Inability to rectify probationary status within the time frame allotted by the ARC.
 - f. A student on probation whose actions warrant probation in another category (academic, professional behavior, clinical) may also be separated.
4. A student may register for a Supervised Clinical Education course only two times if the option to reapply is approved by the ARC and a recommendation is made to the department chair/director. This option is only available to students who have failed a clinical rotation and have been separated from the program. This option is not available to students failing didactic course work. A student who is registered for the same course twice and has withdrawn or received a Fail is ineligible for readmission unless otherwise approved by the ARC, Department Chair, and Graduate Dean.
5. The students must follow the proposed curriculum in the specified time frames unless otherwise approved by the ARC, Department Chair, and Graduate Dean.

Objectives:

1. To prepare students to be the purveyors of physical therapy practice through clinical excellence, critical thinking, scientific inquiry, and social responsibility and who are able to use differential diagnoses to guide referral as necessary.
2. To prepare graduates who will be able to work in a wide variety of settings and roles as practitioners, clinical educators and researchers, supervisors, administrators, and consultants.
3. To prepare students to adapt to changes in health care and society and be prepared to work in challenging environments with elderly, rural, and underserved populations.
4. To educate students in the design and implementation of culturally competent health care.
5. To develop scientific practitioners who are able to demonstrate the ability to critically analyze literature, utilize evidence-based integrated treatment approaches, and value clinical based research.
6. To prepare graduates to educate and encourage patients to achieve functional independence so they may have an improved quality of life and become more productive members of society.
7. To prepare graduates who will be able to organize and promote health awareness, wellness, and prevention education, and reintegrate populations with special needs into the community through outreach programs.
8. To prepare graduates to assume a leadership role in addressing critical issues that affect clinical practice, education, research, and public policy.
9. To prepare graduates to be committed to a lifetime of self-directed learning, professional development, and integrity and to exemplify professional and personal ethics and values.
10. To prepare graduates to demonstrate understanding of medico-legal issues in physical therapy practice through active involvement in professional organizations.
11. To educate students on the benefits of working interdependently with other health care professionals using a team approach to patient care.

Graduation Requirements

Students in the Physical Therapy program must adhere to the following requirements for graduation:

1. Satisfactory completion of the Physical Therapy program curriculum including the required period of clinical education with a grade point average of 3.00 or higher on a scale of 4.00.
2. Credit by Challenge Examination. Graduate courses in the Department of Physical Therapy may not be challenged for credit.
3. The program must be completed within six years from the date of matriculation. The chair/director will evaluate potential exceptions.

4. In addition to the course requirements, the student must satisfactorily prepare a written document and oral defense of a final research project, professional paper, or case report. The defense will consist of a presentation open to the public and the doctoral advising committee, followed by a period of questions.
5. Students must be in good standing with the Department of Physical Therapy and cannot be on a probation status at the time of graduation. Policies related to student probation, separation, and academic progress as stated in the current physical Therapy Student Manual are in compliance with the Graduate College.

Degree Requirements:

Summer Semester First Year (Both Sessions)

DPT 744 Gross Human Anatomy I	3 cr*
DPT 745 Gross Human Anatomy II	3 cr*
DPT 710 Selected Topics in Physical Therapy	1 cr
DPT 711 Medical Terminology in Physical Therapy	1 cr
Total Semesters Credit Hours: 8	

Fall Semester First Year

DPT 730 Foundations of Observation and Assessment	4 cr*
DPT 742 Clinical and Pathological Physiology	5 cr
DPT 746 Neuroanatomy	4 cr
DPT 741 Orthopaedic Principles	3 cr*
DPT 749 Applied Exercise Physiology	3 cr
Total Semester Credit Hours: 19	

Spring Semester First Year

DPT 754 Orthopaedic Assessment in Physical Therapy	4 cr
DPT 732 Therapeutic Exercise	3 cr
DPT 752 Physical Agents	2 cr*
DPT 756 Neurophysiology	4 cr
DPT 790 Clinical Research in Physical Therapy	3 cr
DPT 735 Functional Training	2 cr
Total Semester Credit Hours: 18	

Summer Semester Second Year (Both Sessions)

DPT 748 Pharmacology in Physical Therapy	2 cr
DPT 753 Electrotherapy	2 cr*
DPT 722 Issues in Rural Health	1 cr
DPT 761 Supervised Clinical Education I	3 cr*
Total Semesters Credit Hours: 8	

Fall Semester Second Year

DPT 720 Professional Development	2 cr
DPT 770 Cardiopulmonary Rehabilitation	2 cr
DPT 785 Orthopaedic Rehabilitation	3 cr*
DPT 786 Neurological Rehabilitation	3 cr
DPT 791 Applied Research Statistics	3 cr
DPT 757 Wound Care	2 cr*
DPT 725 Evidenced-Based Clinical Practice	2 cr
Total Semester Credit Hours: 17	

Spring Semester Second Year

DPT 755 Geriatric and Pediatric Rehabilitation	3 cr
DPT 787 Integrated Rehabilitation	3 cr
DPT 721 Advanced Topics in Physical Therapy	2 cr
DPT 750 Prosthetics and Orthotics	3 cr*
DPT 788 Spine Examination and Intervention	3 cr
DPT 751 Women's Health in Physical Therapy	2 cr
Total Semester Credit Hours: 16	

Summer Semester Third Year (Both Sessions)

DPT 772 Physical Therapy Administration	2 cr
DPT 774 Psychosocial Aspects of Physical Therapy	2 cr
DPT 758 Diagnostic Testing and Imaging	2 cr
Total Semesters Credit Hours: 6	

Fall Semester Third Year

DPT 762 Supervised Clinical Education II	5 cr*
DPT 763 Supervised Clinical Education III	5 cr*
Total Semester Credit Hours: 10	

Spring Semester Third Year

DPT 764 Supervised Clinical Education IV	6 cr*
DPT 798 Directed Research	3 cr
Total Semester Credit Hours: 9	

Total Curriculum Credit Hours: 111 * Course fee

Transitional Alumni Program

The UNLV Transitional DPT program is intended only for the benefit of past UNLV students and alumni.

There are other Transitional DPT programs across the country that clinicians within the Las Vegas area or abroad may wish to pursue if a DPT is desired.

Admission Requirements

Alumni seeking admission to the Transitional DPT Program one year post graduation will need to submit an application fee along with their application forms. The Department of Physical Therapy will inform the Graduate College of those students who have applied to the Transitional DPT Program. The Transitional program will most likely begin Summer 2007. Applicants are required to demonstrate one year of professional experience in physical therapy practice (letter of documentation from supervisor) and provide evidence of current physical therapy licensure in the state of practice.

The application deadline is January 31 for Summer or Fall classes, while the spring deadline is November 15.

Degree Requirements

Applicants must receive approval from the Department of Physical Therapy prior to enrollment, if wishing to replace continuing education courses for specific DPT classes.

A limit of two courses will be waived with continuing education, provided the applicant submits a description and certificate regarding the continuing education course(s) and passes a proficiency/competency examination.

However, students are responsible for payment of tuition and fees related to waived courses.

The Department of Physical Therapy is committed to assisting students seeking the Transitional DPT degree by providing several alternative classes through 2009.

The alternative classes will fall on Friday, Saturday, and Sunday and may consist of part or the entire course on-line.

Following the 2009 Spring semester, Transitional DPT students may have to continue the program by following the traditional class format.

Other considerations may be provided for the Summer 2009 semester upon the Physical Therapy Chair's consent.

Students will be required to take the following 14 credits of didactic coursework or equivalent (continuing education coursework may be acceptable under aforementioned conditions):

DPT 791	Applied Research Statistics	(3 credits)
DPT 757	Wound Care	(2 credits)
Or	Continuing Education Courses to cover 30 hours of training	
DPT 725	Evidence-Based Clinical Practice	(2 credits)
DPT 788	Spine Examination and Intervention	(3 credits)
Or	Continuing Education Courses to cover 45 hours of training	
DPT 751	Women's Health in Physical Therapy	(2 credits)
Or	Continuing Education Courses to cover 30 hours of training	
DPT 758	Diagnostic Testing & Imaging	(2 credits)
Or	Continuing Education Courses to cover 30 hours of training	

Additionally, the following 2 courses, consisting of 6 credits, will be required:

DPT 798	Directed Research	(1-6 credits)
DPT 795	Independent Study	(1-3 credits)

Total Credits = 20

Doctor of Physical Therapy

DPT 710 1 credit

Selected Topics in Physical Therapy

Forum to disseminate information to students on current and professional issues in physical therapy. Prerequisite: Graduate standing in physical therapy.

DPT 711 1 credit

Medical Terminology

Introduction to medical terminology for the healthcare professional. Students expand their medical vocabulary via immersion in medical content and subjects from a broad spectrum of body systems. Prerequisite: Graduate standing in physical therapy.

DPT 720 2 credits

Professional Development

Theories and experiences designed to develop skills to accurately, sensitively and assertively communicate with patients, families, and colleagues. Principles of written and oral communication. Professional issues of changes in health care, state and local laws, standards of practice, code of ethics, quality assessment and quality assurance. Prerequisite: Graduate standing in physical therapy.

DPT 721 2 credits

Advanced Topics in Physical Therapy

Forum to disseminate information on advanced aspects of clinical practice, ethics, and professional conduct related to physical therapy. Prerequisite: DPT 710.

DPT 722 1 credit

Issues in Rural Health

Unique needs of frontier/rural and underserved populations addressed, emphasizing the eclectic nature of practice in these areas, the importance of networking with other disciplines, and special considerations of these populations including functional rehabilitation, time management, travel, emergencies, and involvement of families in treatment. Prerequisite: Graduate standing in physical therapy.

DPT 725 2 credits

Evidenced Based Clinical Practice

Synthesis of didactic material and critical review of the literature combined for effective treatment applications. Complex patient assessment and treatment across all areas emphasizing multifaceted evidence-based rationale for all treatment approaches. Prerequisite: Graduate standing in physical therapy.

DPT 730 4 credits

Foundations of Observation and Assessment

Basic patient assessment skills with introduction to posture and gait evaluation through observation. Patient history and review of the medical record. Documentation in S.O.A.P. Note and functional outcome formats. Assessment skills emphasized include: anthropometric measures, reflex and sensation testing, goniometry, manual muscle testing, vital signs, and surface palpation. Prerequisite: Graduate standing in physical therapy.

DPT 732 3 credits

Therapeutic Exercise

Holistic approach to evaluation and management of patients with various orthopaedic pathologies and dysfunctions. Emphasis placed on theoretical basis of specific functional skills interrelated with clinical decision-making methodology leading to safety awareness and proper body mechanics. Exposure to community/work reintegration and home exercise program instruction. Prerequisite: Graduate standing in physical therapy.

DPT 735 **Functional Training** **2 credits**

Performance and application of positioning skills, transfers techniques, and assistive devices. Advancement to clinical decision-making skills and incorporation of learned materials into therapy interventions. Clinical reasoning and critical analysis skills in assessment, treatment design and intervention, goal development and discharge planning for patient's with spinal cord injuries. Prerequisites: DPT 744, DPT 745, DPT 730.

DPT 741 **Orthopaedic Principles** **3 credits**

Principles of orthopaedic physical therapy including biomechanics, applied anatomy, and osteokinematic and arthrokinematic concepts examined. Musculoskeletal system investigated from histological, structural, and functional perspectives. Prerequisite: Graduate standing in physical therapy.

DPT 742 **Clinical and Pathological Physiology** **5 credits**

Fundamentals of physiology and pathology related to diseases causing abnormal movement patterns or capabilities. Processes and diseases most frequently encountered in physical therapy practice emphasized. Prerequisite: Graduate standing in physical therapy.

DPT 744 **Gross Anatomy I** **3 credits**

Study of gross human anatomy as it applies to physical therapy. Materials to be covered include: muscle, tendon, ligament and nerve innervation of the trunk and upper extremity, structural identification and function of the spine, heart, lungs, abdominopelvic organs, circulatory and sensory systems. Emphasis on relevance of gross anatomy to physical therapy practice. Involves both lecture and laboratory dissection that will cover the upper half of the body. Prerequisite: Graduate standing in physical therapy.

DPT 745 **Gross Anatomy II** **3 credits**

Study of gross human anatomy as it applies to physical therapy. Materials to be covered include: muscle, tendon, ligament and nerve innervation of the head, neck, and lower extremity, structural identification and function of the corresponding circulatory and sensory systems. Prerequisite: DPT 744.

DPT 746 **Neuroanatomy** **4 credits**

High level immersion into the anatomy of the nervous system, emphasizing structure and functional relationships. Relates structural relationships of the central and peripheral nervous systems to brain dysfunction and pathology. Prerequisite: Graduate standing in physical therapy.

DPT 748 **Pharmacology** **2 credits**

Actions and effects of pharmaceutical agents commonly encountered in physical therapy clinical practice. Prerequisite: Graduate standing in Physical Therapy.

DPT 749 **Applied Exercise Physiology** **3 credits**

Overview of physiologic responses of the human body to acute bouts of exercise and how exercise training leads to chronic adaptations of selected systems. Prerequisite: Graduate standing in physical therapy.

DPT 750 **Prosthetics and Orthotics** **3 credits**

Evaluation of medical, surgical and prosthetic and rehabilitation management of amputations. Design, fabrication and fitting of prosthetic devices as well as general orthotics principles examined. Basic clinical problem solving skills integrated in the context of prosthetic and orthotic management of patients. Prerequisite: Graduate standing in physical therapy.

DPT 751 **Women's Health in Physical Therapy** **2 credits**

Overview of the anatomical, physiological, nutritional, psychological, and sociological influences throughout the woman's life span including: adolescence, the reproductive years, the middle years, the older age. Discussion of physical therapy management of musculoskeletal, integumentary, cardiopulmonary, and visceral pathologies common to women. Prerequisite: Graduate standing in physical therapy.

DPT 752 **Physical Agents** **2 credits**

Biological effects of injury and repair, clinical application of soft tissue techniques, thermal agents, intermittent compression, continuous motion, and mechanical traction. Advancement to clinical decision-making skills and treatment program planning stressed. Prerequisite: DPT 742.

DPT 753 **Electrotherapy** **2 credits**

Principles of a electrophysics and neurophysiology as they pertain to the use of therapeutic electrical stimulation. Application techniques of various electrical stimulation devices also presented. Prerequisite: DPT 742, DPT 752, DPT 730, DPT 732.

DPT 754 **Orthopaedic Assessment in Physical Therapy** **4 credits**

Evaluation and assessment of upper and lower extremity orthopaedic problems. Functional anatomy, biomechanics, and evaluative manual therapy skills used to functionally diagnose orthopaedic pathologies and disorders. Prerequisites: DPT 730, 741, and 744.

DPT 755 **3 credits**
Geriatric and Pediatric Rehabilitation

Examination of factors affecting normal and pathologic systems from birth into aging. Issues include normal developmental sequences and common pathologies across the life span. Evaluation, wellness and leisure activities, and how basic rehabilitation procedures can be modified for the elderly. Prerequisite: Graduate standing in physical therapy.

DPT 756 **4 credits**
Neurophysiology

High level immersion into the function of the human central and peripheral nervous systems based on current research and theory. Topics include normal human motor and sensory neurophysiology, cognitive and learning neurophysiology, neuropathophysiology, neuroplasticity, neurodiagnostics and neurologic treatment options. Prerequisite: DPT 746.

DPT 757 **2 credits**
Wound Care

Clinical practice of wound care including physiology of tissue healing, wound assessment tools, dressings and treatment approaches. Processes and diseases most frequently encountered in physical therapy practice specializing in wound care. Prerequisites: DPT 742, DPT 752.

DPT 758 **2 credits**
Diagnostic Testing and Imaging

Presentation of diagnostic tests used by disciplines and specialties within and outside of the profession of physical therapy. Discussion of blood studies, nuclear medicine studies, and radiologic/X-ray studies. Interpretation of test results as it applies to physical therapy evaluation, intervention planning and treatment. Prerequisite: Graduate standing in physical therapy.

DPT 761 **3 credits**
Supervised Clinical Education I

The first clinical affiliation is a supervised full-time extended clinical learning experience six weeks in duration. The primary purpose is to provide students with the opportunity to actively engage in learning in order to develop introductory clinical competence in the delivery of services to persons with movement dysfunction. Prerequisite: Successful completion of all course work in the first year of the graduate physical therapy program.

DPT 762 **5 credits**
Supervised Clinical Education II

The second clinical affiliation is a supervised, full-time extended clinical learning experience 11 weeks in duration. The primary purpose is to provide students with the opportunity to actively engage in experiential learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction. Prerequisite: DPT 761.

DPT 763 **5 credits**
Supervised Clinical Education III

The third clinical affiliation is ten and one-half weeks and is a supervised full-time extended clinical learning experience. The primary purpose is to provide students with the opportunity to actively engage in experimental learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction. Prerequisite: DPT 762.

DPT 764 **6 credits**
Supervised Clinical Education IV

The fourth clinical affiliation is twelve weeks and is a supervised full-time extended clinical learning experience. The primary purpose is to provide students with the opportunity to actively engage in experiential learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction. Prerequisite: DPT 763.

DPT 765 **4 credits**
Clinical Education V

This nine-week clinical affiliation is an extended learning experience for students completing the transitional physical therapy doctorate. The primary purpose is to provide students the opportunity to advance clinical competence in the delivery of physical therapy services to persons with movement dysfunction. Prerequisite: Successful completion or concurrent work in all course work to date in the transitional doctorate physical therapy program.

DPT 770 **2 credits**
Cardiopulmonary Rehabilitation

Evaluation and treatment of patients with acute and chronic cardiopulmonary disease and dysfunction. Emphasis on regulation of cardiac, circulatory and pulmonary functions at rest and the responses of these systems to differing modes, intensities, and durations. Prerequisite: Graduate standing in physical therapy.

DPT 772 **2 credits**
Physical Therapy Administration

General principles of organizations and administration that impact the ethical and legal aspects of physical therapy practice. Topics include budget development, cost accounting, supervision, communication skills, evaluative techniques, and methods of management and quality assurance. Prerequisite: Graduate standing in physical therapy.

DPT 774 **2 credits**
Psychosocial Aspects of Physical Therapy

Social and psychological issues which arise during illness examined and discussed in an open class discussion format. Emphasis on self-awareness as well as awareness of others with respect to cultural differences, religious beliefs, addictions, and coping strategies during stress. Prerequisite: Graduate standing in physical therapy.

DPT 785 **3 credits**
Orthopaedic Rehabilitation

Manual therapy and therapeutic exercise techniques for the extremities with emphasis on specifically integrating these techniques into treatment regimes for specific orthopaedic pathologies and disorders. Students review, integrate, and enhance knowledge from previous course work as it pertains to appropriate entry-level manual skill application. Prerequisites: DPT 732, DPT 741, DPT 754.

DPT 786 **3 credits**
Neurological Rehabilitation

Fosters clinical reasoning and critical analysis skills in assessment, treatment design and intervention, goal development and discharge planning for neurologically impaired individuals. Students exposed to theoretical applications of neurological function and treatment and are expected to incorporate professional behavior, scientific and clinical knowledge. Prerequisites: DPT 730, DPT 732, DPT 744, DPT 745, DPT 746, DPT 756.

DPT 787 **3 credits**
Integrated Rehabilitation

Assessment and treatment of advanced orthopedics, advanced neurological, and spinal cord injured patients utilizing comprehensive techniques for spinal cord injury (SCI), orthopedics, and neurological treatment. Through dynamic patient case problems, students evaluate, plan, and implement course of treatment. Prerequisites: DPT 785, DPT 786.

DPT 788 **3 credits**
Spine Examination and Treatment

Review of spine examination including biomechanics, observation, range of motion, muscle synergy, joint play and special tests. Inclusion of examination schema and differential diagnosis of commonly seen spine pathology. Emphasis on hands-on examination, assessment, and treatment of spine dysfunction. Prerequisite: Graduate standing in physical therapy.

DPT 790 **3 credits**
Clinical Research in Physical Therapy

Introduction to principles and concepts of clinical research in physical therapy. Covers development of the research question, measurement issues, statistical analysis, literature review, and writing of results. Prerequisite: Graduate standing in physical therapy.

DPT 791 **3 credits**
Applied Research Statistics

Review of foundations, concepts of measurement, and design in clinical research. Emphasis on hands-on data analysis of clinically relevant physical therapy research designs including descriptive statistics, statistical inference, analysis of differences, and analysis of relationships. Prerequisite: Graduate standing in physical therapy.

DPT 795 **1-6 credits**
Independent Study

Students pursue a topic related to physical therapy beyond that covered in the graduate curriculum. Satisfactory completion accomplished through individualized, self-directed study. Topics based on student preference and faculty approval. Faculty and student jointly determine goals, objective and evaluation methods. May be repeated to a maximum of six credits. Prerequisite: Graduate standing in physical therapy.

DPT 798 **1-6 credits**
Directed Research

Critical inquiry by participating in new or ongoing research with faculty who serve as project advisors. Students summarize research by a written report and present each project orally to the faculty and area clinicians. May be repeated to a maximum of six credits. Prerequisite: DPT 790.