
pathology and models of disease with primary emphasis placed on neurological dysfunctions or diseases. Course content includes the etiology, signs, and symptoms, clinical course, prognosis, medical testing, and medical/surgical management of selected conditions.

OT 6540. Level I Fieldwork: Musculoskeletal (1)
This course is part of a series of Level I fieldwork experiences offered. These experiences enable the student to further develop knowledge, skills, and attitudes in preparation for professional occupational therapy roles. A seminar experience allows the student with the opportunity to discuss and reflect on personal, social and professional issues. Emphasis: Musculoskeletal. Pass/No Pass.

OT 6560. Musculoskeletal Assessment and Intervention (4)
This class incorporates theories and conceptual models of assessment and intervention of clients with musculoskeletal deficits who have impairments with occupational performance. Theories of musculoskeletal rehabilitation, cardiac rehabilitation, industrial rehabilitation, positioning, and prosthetics and orthotics are discussed as they relate to a variety of clients with musculoskeletal dysfunction. Specific assessment and intervention strategies to improve occupational performance are explored. Corequisite: OT 6565.

OT 6565. Occupational Intervention IV: Musculoskeletal (2)
This laboratory course, offered in conjunction with OT 6560, provides therapeutic approaches to purposeful activity, human performance, and adaptation. It provides the student experience with assessment and intervention strategies commonly used by occupational therapists in the treatment of individuals with musculoskeletal and occupational performance deficits. Lab fee. Corequisite: OT 6560.

OT 6700. Fieldwork II (6)
Fieldwork assignments are arranged internships under direct supervision of a registered occupational therapist. Level II Fieldwork is designed to promote clinical reasoning and reflective practice, to transmit the values and beliefs that enable the application of ethics related to the profession, to communicate and model professionalism as a developmental process and a career responsibility, and to develop and expand a repertoire of occupational therapy assessments and treatment interventions related to human performance. (Pass/No Pass)

OT 6800. Fieldwork II (6)
This is the second Level II fieldwork experience. See OT 6700. (Pass/No Pass)

DEPARTMENT OF PHYSICAL THERAPY (PT)

Associate Professor

Jim Dronberger, PT, DPT, MBA

Jean M. Hiebert, PT, Ph.D.

Brian McKiernan, PT, Ph.D. (Chair)

Ellen F. Spake, PT, Ph.D.

Catherine Thompson, PT, Ph.D.

*Assistant Professor
Academic Coordinator
of Clinical Education*

Ann Marie Decker, PT, MSA, GCS

The Rockhurst University Department of Physical Therapy Education is committed to the development of highly qualified physical therapists. The primary focus is on the preparation of students to provide prevention, education, examination, and intervention to persons whose abilities are threatened or impaired by developmental deficits, aging, physical illness, or injury. Graduates of the program are able to examine and evaluate, arrive at a physical therapy diagnosis and prognosis, and provide interventions and risk reduction strategies. As critical consumers of the professional literature, graduates are able to apply the results of research to patient care. Emphasizing and integrating critical thinking, problem solving, and ethics throughout the curriculum, the Rockhurst physical therapy program culminates in the student's ability to clinically reason in a complex and changing health care environment. The program is designed for the person with an undergraduate degree in a field other than physical therapy.

Rockhurst's physical therapy program is distinctive for its Jesuit liberal arts perspective, close faculty-student interactions, and interdisciplinary collaboration. Students work together with faculty on research projects, have access to state-of-the-art technology, and are given opportunities for clinical experiences at sites located across the country. Graduate and research assistantships are available, and provide opportunities for students to work one-on-one with faculty mentors. Collaborative service projects enable faculty, students, and other members of the Rockhurst community to team with community and international agencies, fulfilling the institution's mission of providing leadership in service to others.

The physical therapy program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 N. Fairfax St., Alexandria, VA, 22314-1488. Graduates are eligible to sit for the licensure examination in the state in which they plan to practice.

Admission to the Program

The professional course work leading to the Doctor of Physical Therapy degree is completed over three full-time years of study. Admission to the University and/or meeting the minimum stated requirements does not guarantee admission to the program.

The physical therapy program accommodates multiple points of entry for undergraduate students. For the Rockhurst student, these include Freshman Pre-Admission, Physical Therapy Scholars, and entry during the final year of undergraduate coursework. Opportunities also exist for the transfer and post-baccalaureate student.

Exceptional students may be given a **Freshman Pre-Admission Guarantee** into the professional program. These positions are awarded on a competitive basis, based on a combination of ACT or SAT scores, high school grades and class rank. Students receiving a pre-admission guarantee must maintain specified academic standards in order to matriculate into the program.

Rockhurst students with outstanding academic work but who do not have a pre-admit guarantee may apply for advanced admission status under the **Physical Therapy Scholars Program** at the beginning of the spring semester of their junior year. Such students must demonstrate a 3.4 grade point average in both their science and cumulative university course work, satisfactorily complete an interview, and must demonstrate the ability to complete their baccalaureate degree by the end of their senior (fourth) year. Meeting the minimum requirements for early application under the PT Scholars Program does not guarantee early admission into the program.

Rockhurst undergraduate students may apply beginning in the summer prior to their senior year. Undergraduate students at other institutions can apply during the Fall semester of their senior year to enter the program following completion of their degree from an accredited college or university.

Exceptional students who transfer to Rockhurst to complete an undergraduate degree may be considered for a **Transfer Pre-Admission Guarantee** into the graduate program at the time of transfer. Such students must demonstrate a minimum of a 3.5 grade point average on a 4.0 scale at the time of transfer, demonstrate behavior consistent with the physical therapy profession, maintain a 3.4 cumulative grade point average on a 4.0 scale each semester, and demonstrate a 3.4 science AND 3.4 cumulative grade point average at the end of the Fall semester prior to beginning the physical therapy program.

Post-baccalaureate students are considered for entry into the program on a competitive basis. Applications may be submitted beginning in the Summer semester prior to

the anticipated starting date. For students with a prior undergraduate degree from an accredited institution, the professional doctoral degree program is completed in three years.

Enrollment is limited and early application is encouraged. Meeting minimum requirements does not guarantee admission to the professional program. Applications for the graduate program can be obtained through the Rockhurst University web site, www.rockhurst.edu, or by writing:

Office of Graduate Admission
Rockhurst University
1100 Rockhurst Road
Kansas City, MO 64110-2561
(816) 501-4100 or 501-4097
1-800-842-6776
graduate.admission@rockhurst.edu
www.rockhurst.edu

Requirements for Admission

Applicants for the doctoral degree in physical therapy must show evidence of the following in order to be considered for admission:

- ◆ Completion of a bachelor's degree at an accredited institution in a discipline other than physical therapy with a minimum cumulative AND science GPA of 3.0 recommended.
- ◆ Completion of three recommendation forms.
- ◆ Basic computer competence.
- ◆ Personal interview with members of the Physical Therapy Admissions Committee may be required.
- ◆ Completion of ALL designated prerequisite courses by the end of the Spring semester prior to beginning the professional curriculum as listed below:

Basic Proficiencies: English Composition I & II (EN 1110 and 1120), Fundamentals of Communication (CT 2000). Interpersonal Communication is strongly recommended.

Behavioral Sciences: Developmental Psychology (PY 3400); Abnormal Behavior (PY 3550) recommended.

Humanities: Ethics (PL 3100).

Natural Sciences: General Biology I (BL 1250/1251), Comparative Vertebrate Anatomy (BL 3400/3401), General Physiology (BL 3700/3701), General Chemistry I & II (CH 2610 and CH 2630), Introductory Physics I & II (PH 1800/1810 and PH 1900/1910), and Statistics (PY 2100 or BUS 2200). Embryology and Histology are strongly recommended.

NOTE: The above course numbers should assist both Rockhurst and transfer students in locating prerequisite course descriptions.

Requirements may be subject to change without notice. Therefore, it is important that all prospective applicants contact the Department of Physical Therapy Education on a regular basis.

Promotion in the Program

To progress toward the Doctor of Physical Therapy degree, students must:

1. Maintain a 3.0 semester AND cumulative GPA for all courses within the professional curriculum. All courses in the professional curriculum must be completed with at least a grade of C. Any grade below a C, or more than two C's in professional, didactic course work results in dismissal from the program.
2. Complete a minimum of one elective course. Requirements concerning elective course work are described in detail in the *Physical Therapy Student Handbook*.
3. Pass three comprehensive examinations at the specified competency level; one each prior to matriculation to the second and third years of professional study, and one prior to graduation.
4. Consistently demonstrate professional behavior when interacting with faculty, students, and consumers. These behaviors reflect the capacity to deliver a high standard of health service and are as important as traditional academic standards in determining criteria for promotion and continuation in the program. Professional behaviors are described in detail in the *Physical Therapy Student Handbook*.

Decelerated Option

The Physical Therapy Education Program at Rockhurst University acknowledges the need for some students to complete their doctoral degree education in greater than three years, as would be the case for students due to unforeseen or unusual circumstances. Students choosing the Decelerated Option must take no longer than four years rather than three, to complete their doctoral degree. Students choosing the Decelerated Option are required to meet the same graduation requirements as students completing the three-year sequence.

Graduation

The Doctor of Physical Therapy degree requires a cumulative quality grade point average of 3.0 or greater to graduate. The *Physical Therapy Student Handbook* contains additional supplementary information about the program.

Physical Therapy DPT Curriculum

Year 1

Summer

PT 6004	Clinical Pathophysiology	2
PT 6006	Health Promotion	2
PT 6008	Medical Diagnostics	2
PT 6501	Research I	2
PT 6815	Professional Development I	2
	Total Hours:	10

Year 1

Fall

PT 6100	Anatomy	4
PT 6102	Anatomy Lab	1
PT 6104	Pharmacology	1
PT 6106	Functional Anatomy Lab	1.5
PT 6112	Exercise Physiology	3
PT 6114	Exercise Physiology Lab	1
PT 6122	Motor Control/Learning	2
PT 6411	Clinical Decision Making I	1
PT 6825	Professional Development II	2
	Total Hours:	16.5

Year 1

Spring

PT 6116	Biomechanics/Kinesiology	4
PT 6118	Biomechanics/Kinesiology Lab	1
PT 6300	Clinical Procedures I	2
PT 6302	Clinical Procedures I Lab	1
PT 6304	PT Mgmt of Cardio Cond	3
PT 6306	PT Mgmt of Cardio Cond Lb	2
PT 6421	Clinical Decision Making II	.5
PT 6502	Research II	3
PT 6971	Clinical Education I	1
	Total Hours:	17.5

Year 2

Summer

PT 7120	Neuroscience	4
PT 7312	PT Mgmt of MS Cond I	3
PT 7314	PT Mgmt of MS Cond I Lab	1
	Total Hours:	8

Year 2

Fall

PT 7316	PT Mgmt of MS Cond II	2
PT 7318	PT Mgmt of MS Cond II Lab	2
PT 7326	PT Mgmt of Neuro Cond I	3
PT 7328	PT Mgmt of Neuro Cond I Lab	1
PT 7332	PT Mgmt of Med Cond	3
PT 7334	PT Mgmt of Med Cond Lab	1
PT 7503	Research III	1
PT 7810	Reflective Practice I	.5
PT 7835	Professional Development III	2
PT 7972	Clinical Education II	1
	Total Hours:	16.5

Year 2**Spring**

PT 7300	Clinical Procedures II	2
PT 7302	Clinical Procedures II Lab	1
PT 7322	PT Mgmt of MS Cond III	1
PT 7324	PT Mgmt of MS Cond III Lab	1.5
PT 7336	PT Mgmt of Neuro Cond II	3
PT 7338	PT Mgmt of Neuro Cond II Lab	1
PT 7342	PT Mgmt of Ped Cond	2
PT 7344	PT Mgmt of Ped Cond Lab	1
PT 7431	Clinical Decision Making III	.5
PT 7504	Research IV	1
PT 7510	Health Care Management	2
	Total Hours:	16

Year 3**Summer**

PT 8820	Reflective Practice II	1.5
PT 8973	Clinical Education III	3
	Total Hours:	4.5

Year 3**Fall**

PT 8830	Reflective Practice III	3
PT 8974	Clinical Education IV	3
PT 8975	Clinical Education V	3
	Total Hours:	9

Year 3**Spring**

Block A:		
PT 8840	Reflective Practice IV	1
PT 8976	Clinical Education VI	2
Block B:		
PT 8441	Clinical Decision Making IV	2
PT 8505	Research V	2
PT 8520	Concepts & Practice Admin	2
PT 8845	Professional Development IV	2
	Elective(s)	1-2
	Total Hours:	12-13
	Program Total Hours:	110-111

Course Descriptions

PT 6004. Clinical Pathophysiology (2)

This course provides the foundation for understanding pathological processes related to mechanisms of disease. Topics include tissue adaptation and injury, genetic control of cell function, alterations in cell growth and replication, as well as alterations in fluids, electrolytes, and acid-base balance. Additional concepts of altered health states include mechanisms of self-defense, such as the immune response, inflammatory response, and stress response. Pathophysiological processes are linked to examples of clinical manifestations discussed in case studies representing populations at risk for disease. These pathological processes will be related to tissue injury and tissue healing, including tissue repair, modeling, and regeneration.

PT 6006. Health Promotion (2)

This course explores the concepts of health, fitness, and wellness as they relate to quality of life issues across the lifespan and the role of physical therapy in health promotion, prevention, and protection. Students are exposed to a variety of unique learning opportunities, including community-based service learning, for identifying health needs of target populations, and developing health-related resources to meet those needs.

PT 6008. Medical Diagnostics (2)

This course is designed to provide introductory information regarding the medical tests and procedures used to identify pathology and impairment. Methods of imaging the body, such as X-ray, MRI, CT Scan, and Doppler ultrasound will be presented. The content will provide a foundation for interpretation of pathology in the physical therapy management courses.

PT 6100 (BL 5400). Anatomy (4)

This course presents an integrated regional approach to the study of the structure and function of the human body with emphasis on the musculoskeletal and peripheral nervous system. The study of the fundamental tissues, organs, and other systems of the body cavities is also included. Concurrent: PT 6102.

PT 6102 (BL 5401). Anatomy Lab (1)

This laboratory course is taught concurrently with the Anatomy lecture to provide application of the study of the structures and function of the human body to prosected material, bony specimen, radiographs, and palpation of living subjects. Supervised dissection of human cadavers. Lab fee. Concurrent: PT 6100.

PT 6104. Pharmacology (1)

This course introduces the basic principles of pharmacology, including pharmacokinetics (the process of absorption, distribution, localization in tissues, biotransformation and excretion) and pharmacotherapeutics (management of disease with medi-

cines). Key concepts of drug administration, dose-response relationships, drug interactions, pharmacodynamics (the magnitude and time course of observed pharmacological effects), and other factors influencing the effectiveness of medications will be discussed. Using appropriate resources (i.e., Physician's Desk Reference and current research), students will learn to distinguish the various classes of drugs as well as understand both practical and theoretical implications of drug use for various populations, as presented in case studies.

PT 6106. Functional Anatomy Lab (1.5)

This course introduces the student to the theory and practical application of basic tests and measures related to the examination of the extremities and spine. Examinations that will be taught include palpation, muscle strength testing, range of motion and flexibility testing, and sensory testing. The course is designed to apply content from Anatomy to the functioning human. Lab fee.

PT 6112. Exercise Physiology (3)

This course is designed to study the effects of exercise on human physiological parameters as well as discussion regarding exercise prescription. Topics to be discussed include skeletal muscle mechanisms, energy metabolism, blood and gas transport, cardiovascular dynamics, nutrition, and environmental effects of exercise. Concurrent: PT 6114.

PT 6114. Exercise Physiology Lab (1)

This course is designed to give the student practice in applying the concepts discussed in lecture. Students will perform tests and procedures to evaluate strength, endurance, and flexibility, and design exercise programs for the apparently healthy child, adult, and aged population. Lab fee. Concurrent: PT 6112.

PT 6116. Biomechanics/Kinesiology (4)

This course is designed to study the biomechanical and kinesiological principles underlying individual joint movement and the interaction of these joints to perform functional activities. The course will begin with an introduction to terminology and biomechanical concepts. These concepts will then be applied in discussing the biomechanics of the various joints. This biomechanical information as well as information obtained in PT 6100 (Anatomy Lecture) and PT 6102 (Anatomy Lab) will be utilized to study how muscles work individually and/or together to provide joint movement and how the joints work together to perform functional activities. Application of course information will be used to discuss how pathology involving muscles, bones, connective tissue, or nerves may alter normal joint movement and performance of functional activities. Concurrent: PT 6118.

- PT 6118. Biomechanics/Kinesiology Lab (1)**
This laboratory course complements the lecture course and prepares the student in the theory and practical application of examinations of functional movement. The focus of laboratory will be analysis of posture, gait, and other functional activities. Functional and dysfunctional movement patterns will be analyzed using a variety of techniques including observation, surface electromyography, and computerized motional analysis technology. Lab fee. Concurrent: PT 6116.
- PT 6122. Motor Control/Motor Learning (2)**
Motor control and motor learning concepts lay the foundation of motor skill development and physical therapy practice. This course will explore the development of postural control, mobility, and fine motor function in the context of multi-system changes from birth through old age. Students will explore the scientific theories and clinical application of motor control and motor learning concepts through analysis of movement and skill development in children, young adults, and older adults.
- PT 6300. Clinical Procedures I (2)**
This lecture course is the first in a two-part series of clinical procedures courses designed to prepare the student in the theory and application of selected clinical examination skills and interventions that are fundamental across all practice patterns. This first course includes developing fundamental skills such as body mechanics, bandaging, and documentation. Examination and intervention skill development continues with functional mobility assessment and intervention, amputee management and prosthetic and orthotic care of the spine and limbs. Concurrent: PT 6302.
- PT 6302. Clinical Procedures I Lab (1)**
This laboratory course is designed to provide the student with practical experiences in selected clinical examination skills and interventions in parallel with the lecture component of the course. Lab fee. Concurrent: PT 6300.
- PT 6304. Physical Therapy Management of Cardiovascular and Pulmonary Conditions (3)**
This course introduces the student to the concepts underlying the physical therapy management of patients with cardiovascular and/or pulmonary pathology. Content from the foundational sciences of anatomy, physiology, pharmacology, and pathology will be related to comprehensive management of cardiovascular and/or pulmonary conditions encountered in a variety of clinical settings. Pathophysiology, diagnostic procedures, evidence-based medical/surgical/health care management, and prevention will be included in discussion of conditions commonly encountered in physical therapy practice. Concurrent: PT 6306.
- PT 6306. Physical Therapy Management of Cardiovascular and Pulmonary Conditions Lab (2)**
This course complements the lecture content in Physical Therapy Management of Cardiovascular and Pulmonary Conditions, providing students with an opportunity to apply theory and practice skills in a laboratory situation. Students will measure vital signs, perform cardiac and pulmonary examinations, perform chest physical therapy techniques, design and implement exercise programs, and document their results. Lab fee. Concurrent: PT 6304.
- PT 6411. Clinical Decision Making I (1)**
The first course in this series of case-based problems focuses on theories of clinical decision making and application to individuals in simulated clinical settings. With guided instruction, the student will identify key elements of a case, relate relevant information from class discussion, and apply clinical reasoning skills for optimal client outcomes.
- PT 6421. Clinical Decision Making II (.5)**
The second course in this series builds on fundamental concepts of clinical decision-making theories applied to case-based problem solving that synthesizes biomechanical, physiological, musculoskeletal, cardiopulmonary, and motor control/learning principles. Foundational sciences of anatomy, physiology, pharmacology, and pathophysiology will be applied to case-based problems that students will address through self-directed research, discussion, and guided instruction.
- PT 6501. Research I (2)**
This is the first of a five course sequence designed to provide the knowledge and skills necessary to critically analyze and use scientific literature to improve clinical practice, develop a research question, collect and interpret data, and disseminate results in professional forums. In this course, the student is introduced to principles of evidence-based practice, research design, hypothesis generation and testing, measurement theory, and analysis of data across single subject and qualitative paradigms.
- PT 6502. Research II (3)**
This is the second in a five-course sequence designed to provide the knowledge and skills necessary to critically analyze and use scientific literature to improve clinical practice, develop a research question, collect and interpret data, and disseminate results in professional forums. In this course, the student is introduced to fundamentals of epidemiology, research design, hypothesis generation and testing, measurement theory, and analysis of data across experimental and survey paradigms.
- PT 6815. Professional Development I (2)**
This course is the first in a four-course sequence designed to enhance student growth through professional development. The focus of this course is on intra- and interpersonal communication issues

and skills Learning units address both the professional and patient perspective. Included topics are principles of education, the American Physical Therapy Association (APTA) and its foundational documents, physical therapy professional attributes, psychosocial aspects of illness, complementary medical systems, and basic communication skills. In addition, students will simulate an injury warranting the use of a wheelchair and crutches for one day.

PT 6825. Professional Development II (2)

This course is the second in a four-course sequence designed to enhance student growth through professional development. The focus continues to be placed on interpersonal skills. Learning units address interpersonal issues such as empathy, compliance and dyadic conflict resolution, and a variety of communication contexts including communication with physicians, families, children, and the elderly patient. Additionally, principles of education as it applies to patient education and to teaching students in clinical situations are discussed.

PT 6971. Clinical Education I (1)

This integrated experience is designed to develop observation, communication, and screening skills within a community-based context. Emphasis is on health promotion, wellness, and prevention in community and clinical settings. Students are expected to utilize appropriate interpersonal and professional skills.

PT 7120 (OT 6000). Neuroscience (4)

This course is designed to introduce basic and applied neurological principles. Topics to be covered include terminology and neuroanatomical relationships, cellular neurophysiology, structure and function of the central, peripheral, and autonomic nervous systems and their ability to respond to environmental demands. The student will evaluate human behavior and performance in relation to function and dysfunction of the nervous system.

PT 7300. Clinical Procedures II (2)

This lecture course is the second in a series of two clinical procedures courses designed to prepare the student in the theory and application of selected clinical examination skills and interventions. This course includes intervention approaches specific to the integumentary system, notably edema management and wound care; and multi-system interventions including electrotherapeutic modalities, traction, mechanical joint mobility, and joint protection. Concurrent: PT 7302.

PT 7302. Clinical Procedures II Lab (1)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions in parallel with the lecture component of the course. Lab fee. Concurrent: PT 7300.

PT 7312. Physical Therapy Management of Musculoskeletal Conditions I (3)

This course, the first in a series of three, introduces the student to common musculoskeletal pathologies of the extremities. Information from the foundational sciences of anatomy, physiology, pathology, and pharmacology are linked to various examination and treatment approaches/philosophies for the comprehensive physical therapy management of musculoskeletal conditions. Pathophysiology, diagnostic procedures, evidence-based medical/surgical/health care team management, and prevention will be included in discussion of conditions commonly encountered in physical therapy practice. Concurrent: PT 7314.

PT 7314. Physical Therapy Management of Musculoskeletal Conditions I Lab (1)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions that parallel the lecture component of the course. Lab fee. Concurrent: PT 7312.

PT 7316. Physical Therapy Management of Musculoskeletal Conditions II (2)

This course, the second in a series of three, introduces the student to common musculoskeletal pathologies of the spine and pelvis. Information from the foundational sciences of anatomy, physiology, pathology, and pharmacology are linked to various examination and treatment approaches/philosophies for the comprehensive physical therapy management of musculoskeletal conditions. Pathophysiology, diagnostic procedures, evidence-based medical/surgical/health care team management, and prevention will be included in discussion of conditions commonly encountered in physical therapy practice. Concurrent: PT 7318.

PT 7318. Physical Therapy Management of Musculoskeletal Conditions II Lab (2)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions that parallel the lecture component of the course. Lab fee. Concurrent: PT 7316.

PT 7322. Physical Therapy Management of Musculoskeletal Conditions III (1)

This course, the final in a series of three, focuses on advanced concepts of physical therapy management of musculoskeletal conditions, including integrated joint and spinal mobilization and soft tissue techniques. In contrast to the first two classes in this series, a greater emphasis will be placed on intervention than on examination. Concurrent: PT 7324.

PT 7324. Physical Therapy Management of Musculoskeletal Conditions III Lab (1.5)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions that parallel the lecture component of the course. Lab fee. Concurrent: PT 7322.

PT 7326. Physical Therapy Management of Neuromuscular Conditions I Lecture (3)

This course, the first in a series of two, is designed to introduce students to the concepts underlying the physical therapy management of individuals with movement dysfunction secondary to acquired neuromuscular deficits. Content from the foundational sciences of anatomy, physiology, neuroscience, pharmacology, and pathology will be related to comprehensive management of neuromuscular conditions encountered in a variety of clinical settings. Pathophysiology, diagnostic procedures, evidence-based medical/surgical/health care team management, and prevention will be included in discussion of brain pathologies commonly encountered in physical therapy practice. Concurrent: PT 7328.

PT 7328. Physical Therapy Management of Neuromuscular Conditions I Lab (1)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions that parallel the lecture component of the course. Lab fee. Concurrent: PT 7326.

PT 7332. Physical Therapy Management of Medical Conditions (3)

This course applies current theory to the physical therapy management of acute and chronic medical conditions commonly seen in physical therapy practice. Primary content areas will include diseases or conditions of the integumentary, endocrine and metabolic, genitourinary, gastrointestinal, immune, and hematological systems. Specific diseases such as burns, wounds, pelvic floor dysfunction, hemophilia, obesity, and acquired immunodeficiency syndrome will be presented. The pathophysiology, medical diagnosis, clinical course, medical/surgical/health care team management and prevention will be presented as a foundation for developing a physical therapy plan of care. Concurrent: PT 7334.

PT 7334. Physical Therapy Management of Medical Conditions Lab (1)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions that parallel the lecture component of the course. Lab fee. Concurrent: PT 7332.

PT 7336. Physical Therapy Management of Neuromuscular Conditions II (3)

As a continuation of Physical Therapy Management of Neuromuscular Conditions I, this course applies previously introduced concepts of neuromuscular practice to physical therapy management of individuals with movement dysfunction associated with neuromuscular diagnoses and pathologies primarily affecting the spinal cord and peripheral nervous system. The pathology, clinical manifestations, prognosis, and medical/surgical/health care team management of these disorders are presented as a basis for understanding neuromuscular diseases that required direct intervention by a physical therapist. Concurrent: PT 7338.

PT 7338. Physical Therapy Management of Neuromuscular Conditions II Lab (1)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions that parallel the lecture component of the course. Lab fee. Concurrent: PT 7336.

PT 7342. Physical Therapy Management of Pediatrics Conditions (2)

Theories of growth and development will be reviewed and applied to case studies representing medical conditions encountered in pediatric physical therapy practice. Content from the foundational sciences of anatomy, physiology, pharmacology, and pathology will be related to comprehensive management of pediatric conditions commonly encountered in a variety of clinical settings. Pathophysiology, diagnostic procedures, evidence-based medical/surgical/health care team management, and prevention will be included in discussion of each condition. New and innovative therapy interventions will be explored in light of evidence-based practice and current research. Concurrent: PT 7344.

PT 7344. Physical Therapy Management of Pediatrics Conditions Lab (1)

This laboratory course is designed to provide the student with practical experiences of clinical examination skills and interventions that parallel the lecture component of class. Lab fee. Concurrent: PT 7342.

PT 7431. Clinical Decision Making III (.5)

The third course in this series builds on fundamental concepts of clinical decision-making theories applied to case-based problem solving that synthesizes musculoskeletal, neurological, and acute medical principles. Foundational sciences of anatomy, physiology, pharmacology, and pathophysiology will be reviewed and applied to case-based problems that students will answer through self-directed research, discussion, and guided instruction.

PT 7503. Research III (1)

This is the third in a five-course sequence designed to provide the knowledge and skills necessary to critically analyze and use scientific literature to improve clinical practice, develop a research question, collect and interpret data, and disseminate results in professional forums. This course will culminate in the development of a research proposal.

PT 7504. Research IV (1)

This is the fourth in a five-course sequence designed to provide the knowledge and skills necessary to critically analyze and use scientific literature to improve clinical practice, develop a research question, collect and interpret data, and disseminate results in professional forums. In this course, students work collaboratively with a faculty member to collect data on a unique research, administrative, or educational project.

PT 7510. Health Care Management (2)

This course is designed to introduce physical therapy students to the health care system as a whole. This course is organized around a number of broad concepts and categories. These include the historical development of the health care system in the United States, the evolution of third party reimbursement systems and managed care, Medicare/Medicaid, the Balanced Budget Act of 1997, the legal aspects of health care, documentation, and the influence (or lack thereof) of outcomes.

PT 7810. Reflective Practice I (5)

This course is the first of a four-course series that focuses on the development of reflection in the physical therapy student and professional. Reflective Practice I introduces students to foundational knowledge related to reflection in clinical practice. Students will be presented with theories and tools specific to reflection for the health care professional. Students will identify and demonstrate reflective skills in conjunction with providing direct patient care in the clinic. Students will engage in on-ground and on-line discussions, small group work, case studies, and personal assessment. Concurrent: PT 7972.

PT 7835. Professional Development III (2)

This third course in the professional development series further expands the scope of influence to small group and public arenas. The course focuses on small group communication skills and public interactions, which emphasize the therapists' responsibilities to the public. Included topics are small group communication concepts such as group dynamics, cohesiveness, planning meetings, group conflict, and conflict resolution. In addition, public responsibilities such as legal and ethical practice and consultation architectural barrier assessments are addressed.

PT 7972. Clinical Education II (1)

This three-week, structured clinical learning experience occurs at the conclusion of the formal coursework for the fall semester. The experience is designed to allow the student to practice basic elements of client management including: examination, evaluation, diagnosis, prognosis, and interventions under the direct supervision of a physical therapist who serves as the clinical instructor. Structured weekly assignments are used to integrate pathology, medical tests, examination, case management, resource utilization, and discharge planning. Concurrent: PT 7810.

PT 8441. Clinical Decision Making IV (2)

This course is designed to facilitate the process of clinical decision-making in complex situations. It is specifically offered in the last didactic semester to incorporate the student's clinical experiences in the course content. Included in that is the synthesis of factors influencing clinical decision making (discussion of the network), methodology of decision

analysis, effective and appropriate problem solving, and development of intervention strategies for the complex patient. Coordination, communication, and documentation with other healthcare providers are stressed.

PT 8505. Research V (2)

This is the fifth in a five-course sequence designed to provide the knowledge and skills necessary to critically analyze and use scientific literature to improve clinical practice, develop a research question, collect and interpret data, and disseminate results in professional forums. In this course, students will complete data collection and prepare results for dissemination. Preparation and presentation of the project is required orally and in either manuscript or poster form.

PT 8520. Concepts and Practice of Administration (2)

This course is designed to prepare the student in the theory and practical application of managerial/supervisory principles, concerns, and techniques. Topics include managerial structure and functions, development of and planning for organization operations, financial management, and documentation requirements for organizational operations, quality assessment, personnel selection and management, business ethics, communication concerns, and strategies for change in the workplace.

PT 8600. Creating a Practice (1)

This course is designed to utilize information presented in PT 8520 to create a business, along with a formal business plan. Instruction is presented through group discussions/projects, and individual study of instructional materials. This course fulfills an elective requirement in the physical therapy program. Concurrent: PT 8520.

PT 8610. Assistive Technology (1)

This lecture and laboratory course examines assistive technology used in therapeutic environments. Topics include ergonomics and workstation arrangement, hierarchy of access and switch access, adaptive software/interfaces/augmentative communication, and ECU/High Tech computer access. Students will have an opportunity to work with various forms of technology including computer applications. This course fulfills an elective requirement in the physical therapy program.

PT 8620. Issues in Health Communication (2)

This course introduces the student to the application of various concepts of communication to interactions in the health care field. Emphasis is placed on interpersonal communication situations involving health care practitioners. Topics addressed include: implications for communication in differing models of health care practitioner-patient relationships, verbal and non-verbal communication. This course fulfills an elective requirement in the physical therapy program.

PT 8630. Manual Therapy (2)

This course is designed to teach manual therapy as applied to the lumbar spine, cervical spine, specified peripheral joints, and soft tissue. Skills are built upon those manual therapy concepts initially introduced in PT 7314 and PT 7318. Particular attention is paid to the subjective, objective, and neurological examination, diagnosis of musculoskeletal pathology, its associated problems, appropriate intervention strategies, and modification of the intervention plan. This course fulfills an elective requirement in the physical therapy program. Lab fee.

PT 8650. Qualitative Inquiry (2)

This course is designed to introduce students to the theory and methods of qualitative research. Students learn to formulate a qualitative research question, collect data and analyze findings, and complete a qualitative research project. No prior background in research or social sciences is required. This course fulfills an elective requirement in the physical therapy program.

PT 8670. Pediatric Physical Therapy (2)

This course provides students with basic knowledge of physical therapy practice in the areas of pediatrics and developmental disabilities. Lecture and lab experiences cover the following topics: medical/educational diagnoses and conditions, examination, intervention, documentation, working in teams, and service delivery models in medical, educational, and early intervention settings. This course fulfills an elective requirement in the physical therapy program.

PT 8690. Women's Health (1)

This course will examine how medical knowledge regarding women's health has expanded dramatically. The gender specific nature of medical interventions is becoming clearer as women are studied scientifically and medically. Physical therapists benefit from recognizing gender patterns for disease, as well as gender specific interventions. This course addresses prevalent women's health issues including: hormone replacement therapies, menopause, pelvic floor musculature function, dysfunction, and incontinence; osteoporosis, lymphedema management; pregnancy, exercise, and musculoskeletal disorders; female cardiovascular concerns; and the female athlete. The course consists of both lecture and lab experiences and is held at Shawnee Mission Medical Center. Opportunities are given for observing female support groups and for interaction with key women's health experts. This course fulfills an elective requirement in the physical therapy program.

PT 8700. Principles of Sports Medicine (2)

This lecture/laboratory course incorporates principles of theory and practice in prevention, assessment, and treatment of injuries incurred during athletic participation. The work in this course is in

the context of clinical and field/court decision making. This course fulfills an elective requirement in the physical therapy program.

PT 8820. Reflective Practice II (1.5)

This is the second in a series of four courses meant to develop the skills of reflection in the physical therapist student and professional. In Reflective Practice II, students will apply knowledge and strategies consistent with the reflective practitioner to develop a deeper and broader understanding of self and clients within their assigned practice setting. The focus in this course will be in the application of tools used in reflective practice to promote high quality and efficient physical therapy services for individual clients across the lifespan. Students learning activities will include but not be limited to: on-line learning units that incorporate personal reflection, case studies, small group work, independent research and interviews with clients and professionals. Concurrent: PT 8973.

PT 8830. Reflective Practice III (3)

This is the third in a series of four courses meant to develop the skills of reflection in the physical therapist student and professional. In Reflective Practice III, students will analyze the knowledge and strategies consistent with the reflective practitioner to develop a deeper and broader understanding of clients, practice settings and the profession of physical therapy. The focus of the course will be on the analysis and synthesis of knowledge and tools related to reflective practice to optimize physical therapy services for clients across a minimum of two practice settings. Students will integrate theory and clinical practice through on-line learning units that incorporate personal reflection, case studies, small group work, independent research and interviews with clients and professionals. Concurrent: PT 8974 and PT 8975.

PT 8840. Reflective Practice IV (1)

In this final course of a four course series, students will emerge with a broad and deep understanding of the value of reflective practice for today's physical therapist. Students will evaluate the practice of reflection and propose new methods to incorporate reflection into the practice of physical therapy. Students will begin to self-assess and peer-assess individuals' level of reflection. Students will critique themselves and their peers and offer suggestions for development as a professional in the field of physical therapy. Course will be presented on-line through learning units that incorporate personal reflection, case studies, small group work, independent research and interviews with clients and professionals. Concurrent: PT 8976.

PT 8845. Professional Development IV (2)

This fourth and final course in the professional development series further expands the scope of influence by focusing on developing cultural competence and social action. Student groups research

a culture of their choice and provide an oral presentation in class. In addition, students participate in a Mock House of Delegates and a legislative effort concerning a contemporary issue in physical therapy. Students advance their professional goals by developing a one, three, and five-year individual development plan.

PT 8973. Clinical Education III (3)

This course is the first nine-week, full-time clinical experience in which the student is expected to advance to a minimum level of competency in the basic elements of patient/client management including: client examination, evaluation, diagnosis, prognosis, and intervention application. Students are provided with opportunities to engage in primary prevention as well as secondary and tertiary healthcare activities during these clinical experiences. Students are scheduled for internships in a variety of settings that include inpatient and outpatient rehabilitation departments, schools, and specialty areas (pediatrics, burns, wounds, etc.) A clinical instructor (CI) will supervise each physical therapy student during each clinical internship. Concurrent: PT 8820.

PT 8974. Clinical Education IV (3)

This course is the second nine-week full-time clinical experience in which the student is expected to advance to a minimum level of competency in the basic elements of patient/client management including: client examination, evaluation, diagnosis, prognosis, and intervention application. Students are provided with opportunities to engage in primary prevention as well as secondary and tertiary healthcare activities during these clinical experiences. Students are scheduled for internships in a variety of settings that include inpatient and outpa-

tient rehabilitation departments, schools, and specialty areas (pediatrics, burns, wounds, etc.). A clinical instructor (CI) will supervise each physical therapy student during each clinical internship. Concurrent: PT 8830.

PT 8975. Clinical Education V (3)

This is the final of three nine-week full-time clinical experiences in which the student is expected to advance to a minimum level of competency in the basic elements of patient/client management including: client examination, evaluation, diagnosis, prognosis and intervention application. Students are provided with opportunities to engage in primary prevention as well as secondary and tertiary healthcare activities during these clinical experiences. Students are scheduled for internships in a variety of settings that include inpatient and outpatient rehabilitation departments, schools, and specialty areas (pediatrics, burns, wounds, etc.) A clinical instructor (CI) will supervise each physical therapy student during each clinical internship. Concurrent: PT 8830.

PT 8976. Clinical Education VI (2)

This is a six-week full-time clinical education experience. Students will participate in a final clinical experience in an area of interest. The student will practice all basic elements of patient/client management including examination, diagnosis, prognosis, and intervention application. Students will also participate in case management, administrative, quality improvement efforts as well as consultation activities at their assigned facility. Students will be required to complete a case study or project within their specialty area that will be presented to clinic staff and faculty as appropriate prior to the conclusion of their clinical experience. Concurrent: PT 8840.

PRE-MEDICAL POST-BACCALAUREATE CERTIFICATE PROGRAM

The Pre-Medical Post Baccalaureate Certificate Program is intended for those students who have completed a baccalaureate program, usually in a non-science area, and who now desire to come back to complete their science requirements for medical school. This program is applicable to those preparing for either allopathic (MD) or osteopathic (DO) medical schools. It is also appropriate as preparation for other health careers, e.g. dentistry. The requirements do not differ.

This program is not intended as a remedial program for students who have taken all of the required courses and need to improve their grades. It is not an “MCAT prep” course.