PHYSICAL THERAPY (PHYT)

PHYT 500 CLINICAL EDUCATION 1 2 Credit Hours
This course is the first in a sequence of five clinical education courses. This course will provide the student with professional exposure to the clinical practice of physical therapy and is an integrated clinical experience designed to allow for the application of didactic information acquired through the curriculum thus far.
Prerequisite: Successful completion of all DPT coursework to date per the policy in the Division Student Handbook.
Instructor: Nikki Sleddens PT, MPT, CEEAA Tessa Wells, PT, DPT, GCS
Typically Offered: SPRING

PHYT 502 HUMAN MOVEMENT 1 4 Credit Hours
This course is first of a three-part sequence. This course focuses on different topics of human movement in the practice of physical therapy. The students are introduced to skills related to patient dignity/comfort, vital signs, pain assessment, joint range of motion, manual muscle testing, gait and locomotion, transfers, patient self-care, home management (environmental barriers), and general observation/survey. Concepts pertaining to evidence-based practice and clinical reasoning for patient/client management are presented.
Prerequisite: Admission to DPT program
Instructor: Kellie Gossman, PT, DPT, CLT, PCS
Typically Offered: FALL

PHYT 505 HUMAN MOVEMENT 2 4 Credit Hours
This course is the second of a three-course sequence focused on various elements of human movement related to the practice of physical therapy. Students will be able to perform basic movement analysis required for physical therapy examination and evaluation, and prescribe basic intervention techniques for patients with neuromusculoskeletal dysfunction. Specific emphasis is placed on analysis of posture, control of functional movement, and the development of evidence-based clinical reasoning strategies in patient management. Where little evidence exists, a pragmatic approach integrating basic principles of biomechanics and pathokinesiology will be used.
Prerequisite: Successful completion of all DPT coursework to date per the policy in the Division Student Handbook.
Instructor: Grace C Johnson, PT, DPT, MS, OCS Elizabeth Wellsandt, PT, DPT, PhD, OCS
Typically Offered: SPRING

PHYT 509 HUMAN MOVEMENT 3 4 Credit Hours
This course is the third of a three-part sequence focused on various elements of human movement related to the practice of physical therapy. Specific emphasis is placed on the human body’s response to stressors such as disuse, the aging process, physical activity, and exercise. Students will apply concepts related to health conditions and tissue healing in order to prescribe appropriate exercise interventions for individuals with impairments or activity limitations associated with various movement dysfunctions.
Prerequisite: Successful completion of previous semesters of DPT program.
Instructor: Robert Fuchs, PT, MA, ATP
Typically Offered: SUMMER

PHYT 510 PHYSICAL AGENTS 3 Credit Hours
This course presents the theory and application of selected physical therapy interventions, including, but not limited to, physical agents and soft tissue mobilization (including massage). Content includes the application of clinical reasoning concepts and strategies to determine the most appropriate, safe, patient-centered, and cost-effective intervention for given patient case. The course emphasizes skill development for competent delivery of the selected interventions.
Prerequisite: Successful completion of previous semesters of DPT program
Instructor: Megan Frazee PT, DPT
Typically Offered: SPRING

PHYT 512 NEUROSCIENCE FOUNDATIONS 3 Credit Hours
This course provides foundational knowledge about structures and processes within the neuromuscular system that influence movement. Consequences of use, disuse, age, pathology, and injury as they relate to neurological structure and function are addressed. Content includes motor control theory/principles as they apply to neural structures and observation of normal movement. Neurologic examination techniques are introduced in lab. Clinical problem solving is introduced with an emphasis on integrating concepts of neurological structure/function with previous learning in anatomy, physiology and human movement content.
Prerequisite: Successful completion of all DPT coursework to date per the policy in the Division Student Handbook.
Instructor: Kathleen Volkmann, PT, MS, NCS Rob Norgren, PhD
Typically Offered: SPRING

PHYT 522 PSYCHOSOCIAL ASPECTS OF HEALTHCARE 2 Credit Hours
This survey course addresses a wide array of professional issues related to the practice of physical therapy from the perspectives of behavioral and social science (the study of human behavior in both individual and collective forms). Course topics include, but are not limited to: defining professional and expert practice; identifying ethical dimensions of health care; respecting human differences including self-awareness, family-centered care and cultural competence; developing effective skills in communication and patient education; appreciating the continuum of loss, grieving and adjustment due to chronic illness, social and physical changes and death and dying; and responses to illness and disability that complicate care such as self-destructive behaviors. The course includes a simulation with standardized patients with a focus on communication and patient interview skills.
Prerequisite: Enrollment in the Physical Therapy Program.
Typically Offered: SUMMER

PHYT 523 PSYCHOSOCIAL ASPECTS OF HEALTHCARE 1 2 Credit Hours
This course is the first of a two-course sequence. The course provides students with foundational knowledge and experience in the behavioral sciences as applied to clinical practice. Theory and principles of human communication and behavior will be explored in the context of facilitating an awareness of self and others and enhancing interactions with patients/clients, family, caregivers, health practitioners and consumers. Evidence-based strategies for understanding and facilitating adaptations to illness and disability across the lifespan are introduced.
Prerequisite: Successful completion of all DPT coursework to date per the policy in the Division Student Handbook.
Instructor: Tessa Wells, PT, DPT, GCS
Typically Offered: SPRING
Typically Offered: SUMMER
Instructor: Dawn Venema, PT, PhD

Program
Prerequisite: Successful completion of previous semesters of DPT integrated skills assessment of clinical education readiness from concurrent and prior courses in the curriculum, culminating in an Evidence-Based Practice, Team-based Care, and the Physical Therapist's Role in Society. This team-taught course is the third of a five-course sequence. The

PHYT 562 SEMINAR 3 Credit Hours
This course is the third of a five-course sequence. The Physical Therapy Seminar series is designed to provide a forum for introduction, development, and mastery of essential skills needed to function as a member of the profession of physical therapy. This course continues development of themes related to Clinical Reasoning, Evidence-based Practice, Team-based Care and the Physical Therapist's Role in Society. Patient cases will be used as a means to integrate content from concurrent and prior courses in the curriculum, culminating in an integrated skills assessment of clinical education readiness.

Prerequisite: Successful completion of previous semesters of DPT program.
Instructor: Dawn Venema, PT, PhD
Typically Offered: SUMMER

PHYT 575 CLINICAL ANATOMY OF THE THORAX, ABDOMEN, AND PERINEUM 2 Credit Hours
This course emphasizes the identification, description, location and relationships between clinically relevant anatomical structures and organs in the thoracic, abdominal, and perineal regions. The content presented includes an introduction to anatomical position and its association related to physical examination and potential interventions.

Prerequisite: Successful completion of all DPT coursework to date per the policy in the Division Student Handbook.
Instructor: Joseph Norman, PT, PhD, CCS, FAACVPR
Typically Offered: SPRING

PHYT 604 MUSCULOSKELETAL PHYSICAL THERAPY 1 2 Credit Hours
This course is the first of a three-course sequence to apply elements of the Patient-Client Management Model in care of people with musculoskeletal dysfunction. This course applies elements of the Patient-Client Management Model in care of people with musculoskeletal dysfunction of the cervical and thoracic spine. The course emphasizes regional interdependence and evidence-based clinical reasoning in orthopedic management of the cervical and thoracic spine. Where little evidence exists, a pragmatic approach integrating basic principles of biomechanics and pathokinesiology will be used. Within the context of tissue healing, a physical therapy management approach combines manual therapy, patient education, and therapeutic exercise as intervention for specific musculoskeletal impairments and orthopedic conditions.

Prerequisite: Successful completion of previous semesters of DPT program.
Instructor: Grace Johnson, PT, DPT, MS, OCS
Typically Offered: SUMMER

PHYT 605 MUSCULOSKELETAL PHYSICAL THERAPY II 4 Credit Hours
This course emphasizes physical therapy examination, evaluation, diagnosis, prognosis, and intervention for patients with musculoskeletal dysfunction of the upper quarter: craniomandibular joint, cervical spine, thoracic spine, and upper limb. The material is taught using a combination of lectures, discussion, required readings, demonstrations, case studies, and laboratory sessions.

Prerequisite: Enrollment in the Physical Therapy Program and successful completion of year 1 curriculum.
Typically Offered: FALL

PHYT 606 MUSCULOSKELETAL PHYSICAL THERAPY III 4 Credit Hours
This course emphasizes physical therapy examination, evaluation, diagnosis, prognosis, and intervention for patients with musculoskeletal dysfunction of the lower quarter: lumbar spine, pelvic girdle, lower limb, women's health, and PT in industry.

Prerequisite: Enrollment in the Physical Therapy Program and successful completion of year 1 curriculum.
Typically Offered: SPRING

PHYT 610 CARDIOPULMONARY PHYSICAL THERAPY 4 Credit Hours
This lecture-laboratory course emphasizes application of the therapist-client management model as related to common cardiovascular and pulmonary disorders. Etiology, clinical manifestations, physical therapy examination, evaluation, diagnosis, prognosis and intervention strategies for various cardiovascular and pulmonary disorders will be presented through lectures, laboratory experiences, patient simulation and case study formats.

Prerequisite: Enrollment in the Physical Therapy Program; GCBA 571, CIP 606, NRSG 605.
Typically Offered: FALL
PHYT 612 PEDIATRIC PHYSICAL THERAPY 4 Credit Hours
This course provides the physical therapy student with entry level, foundational knowledge for pediatric practice settings. Topics include: typical motor development, motor performance, and motor learning; standardized tests and screening tools for pediatric populations, common pediatric diagnoses and the impact upon the developing child, treatment planning and equipment needs for specific conditions, goal writing for pediatric practice settings, and pediatric practice issues. Prerequisite: Enrollment in the Physical Therapy Program. Typically Offered: SPRING

PHYT 614 PHYSICAL THERAPY MANAGEMENT OF INDIVIDUALS WITH CHRONIC HEALTH CONDITIONS 2 Credit Hours
A lecture/discussion course which applies concepts of exercise physiology, exercise prescription, and other physical therapy interventions to those individuals with impairments, activity limitations and participation restrictions related to the presence of chronic health conditions. Topics include physical therapy management of individuals with obesity, osteoporosis, fibromyalgia, chronic fatigue syndrome, diabetes, metabolic syndrome, end-stage renal failure, HIV/AIDS, cancer, arthritis and conditions associated with advanced age, and others. Prerequisite: Enrollment in the Physical Therapy Program successful completion of year 1 curriculum. Typically Offered: SPRING

PHYT 615 FUNCTIONAL EXERCISE PROGRESSION 3 Credit Hours
This is a lecture and laboratory course which applies concepts of functional exercise to individuals with health conditions that have resulted in impairments, activity limitations, and participation restrictions with the intent of eliminating or reducing the severity of them. Topics will include motor skills training to diminish or eliminate activity limitations (e.g., standing, walking, transfers, stairs) through functional training, exercise directed at ameliorating specific impairments such as muscle weakness, loss of joint range of motion, or poor coordination and balance, and special exercise modalities that can be applied to patients with varying health conditions. This course is not intended to provide exercise protocols for specific health conditions. Prerequisite: Enrollment in the Physical Therapy Program successful completion of year 1 curriculum. Typically Offered: FALL

PHYT 616 NEUROMUSCULAR PHYSICAL THERAPY II 4 Credit Hours
This is the second in a three course sequence that prepares the student to manage adults presenting with neuromuscular disease. The course provides the student with 1) general principles of examination and evaluation, 2) the theoretical framework for making intervention decisions, including theories of motor control and motor learning, and 3) an overview of adult patient management (examination, evaluation, diagnosis, prognosis, intervention, and outcomes) for Neuromuscular Physical Therapy Practice Patterns. Prerequisite: Enrollment in the Physical Therapy Program, PHYT 512. Typically Offered: FALL

PHYT 617 NEUROMUSCULAR PHYSICAL THERAPY III 3 Credit Hours
This is the third in a three course sequence that continues to prepare the student to manage adults presenting with neuromuscular disease. This course provides the student with 1) an overview of adult patient management (examination, evaluation, diagnosis, prognosis, intervention, and outcomes) for Neuromuscular Physical Therapy Practice Patterns with an emphasis on the complex medical patient, and 2) the theoretical framework for making delegation decisions to PT Assistants. Prerequisite: Enrollment in the Physical Therapy Program, PHYT 616. Typically Offered: SPRING

PHYT 622 PRACTICE MANAGEMENT SKILLS IN PHYSICAL THERAPY I 2 Credit Hours
This course is the first of a multiple course sequence in Practice Management. This foundational course provides an overview of the US health care system and payer systems, resource utilization, documentation, billing and reimbursement as related to providing cost-effective, efficient, ethical, high-quality physical therapy services. Prerequisite: Successful completion of previous semesters of DPT program
Instructor: Patricia A Hageman, PT, PhD, FAPTA Typically Offered: SUMMER

PHYT 624 ORTHOTICS & PROSTHECTS 3 Credit Hours
An advanced lecture, laboratory and demonstration course in the application of anatomy and pathomechanics to bracing and positioning of the human body, to artificial limbs, and the selection and use of other specialized assistive devices, including wheelchairs seating and mobility. It includes examination, evaluation, physical therapy diagnosis and prognosis, and implementation as applied to selection, fitting and training protocols for a variety of neuromuscular and skeletal pathologies, impairments and disabilities, amputations and limb deficiencies. Prerequisite: Musculoskeletal I and II, Therapeutic Exercise. Enrollment in the Physical Therapy Program. Typically Offered: SPRING

PHYT 630 PREVENTION & WELLNESS 2 Credit Hours
The Public Health model of care will be discussed. Methods for addressing the wellness needs of populations, groups and individuals across the lifespan are covered, including alternative and complementary healing methods and movement therapies. The physical therapist’s role in primary, secondary and tertiary prevention of diseases of the neuromuscular, musculoskeletal, cardiopulmonary and integumentary systems will be discussed. In addition, the consultant role of the physical therapist in promoting wellness to industry, community groups and individuals will be addressed. Prerequisite: Enrollment in the Physical Therapy Program and successful completion of year 1 curriculum. Typically Offered: FALL

PHYT 640 CRITICAL INQUIRY 3 Credit Hours
This course is designed to develop the students’ abilities to critically analyze and interpret research. The primary focus will be on evidence-based practice, research designs, statistical methods, and critically analyzing research papers. Prerequisite: Successful completion of all DPT coursework to date per the policy in the Division Student Handbook. Instructor: Dawn Venema, PT, PhD Typically Offered: SPRING
PHYT 650 CLINICAL EDUCATION II 8 Credit Hours
Clinical education courses are an integral part of the DPT curriculum. They allow for the clinical application of physical therapy theories and techniques acquired during lecture and laboratory instruction. As importantly, these courses provide the student with the opportunity to acquire the knowledge, skills, and abilities most effectively taught in the clinical setting. The clinical education process is designed to provide the student with periodic clinical exposure at key times throughout the curriculum, thus enabling to student to build clinical practice skills and confidence while being exposed to a variety of clinicians, patients, and facilities. Although each student will have different clinical education experiences, the process is designed to move the student along a continuum from observation, identification and description to analysis, demonstration, and evaluation. Consequently, the student will also progress from requiring fairly constant supervision by clinical instructors to requiring periodic guidance and eventually to entry level practice. The clinical faculty provides the student with clinical practice experience and specialty knowledge. This, coupled with the program curriculum, provides the foundational base of knowledge, skills and abilities necessary to begin entry level practice.
Prerequisite: Enrollment in the Physical Therapy Program, PHYT 550.
Typically Offered: SUMMER

PHYT 720 DIFFERENTIAL DIAGNOSIS I 2 Credit Hours
This class builds on the students current knowledge of pathophysiology. Emphasis will be placed not only on the signs and symptoms but also the natural progression of the various disease pathologies and how this influences the PT plan of care. Lectures and group discussions will be utilized to facilitate clinical decision-making. Case studies will be used to assist the student in the development of physical therapy treatment programs which not only address current problems, but potential problems and the patient's general health.
Prerequisite: Enrollment in the Physical Therapy Program.
Typically Offered: FALL

PHYT 722 PRACTICE MANAGEMENT SKILLS IN PHYSICAL THERAPY II 2 Credit Hours
There are no specific clinical rotations as part of this course. The student will be required to complete one written assignment for PHYT 722 Assignment 4 that requests the student to interview his/her clinical instructor about effective strategies for professional development.
Prerequisite: Enrollment in the Physical Therapy Program, PHYT 502, PHYT 622.
Typically Offered: FALL

PHYT 726 PROFESSIONAL DEVELOPMENT IN PHYSICAL THERAPY 2 Credit Hours
This course provides the learner with the opportunity to acquire specific skills for professional development that include but are not limited to: 1) presenting a patient case to faculty and peers that incorporates demonstration of evidences-based clinical decision making, while using best practices of instructional techniques and educational theories, 2) performing peer and self-assessment activities that include reflective and constructive feedback, 3) critically evaluating methods of maintaining clinical competence, 4) identifying key clinical instructor competencies, 5) designing a realistic and comprehensive professional development plan, and 6) characterizing effective methods for contributing to social responsibility and advocacy.
Prerequisite: Enrollment in the Physical Therapy Program.
Typically Offered: FALL

PHYT 727 DIFFERENTIAL SCREENING FOR PHYSICAL THERAPISTS 2 Credit Hours
This course emphasizes imaging and medical screening tools as they pertain to physical therapy examination, evaluation, diagnosis, prognosis, and intervention. Course information will focus on how findings may influence patient management as well as need for further medical examination or referral. Self-study, lecture, case studies, and group discussion are included in this course.
Prerequisite: Enrollment in the Physical Therapy Program, successful completion of year 1 2 curriculum.
Typically Offered: FALL

PHYT 740 CRITICAL INQUIRY II 3 Credit Hours
This is the second of two courses in critical inquiry designed to develop the students’ abilities to critically analyze and interpret research. A major emphasis in this course is on the process of evidence-based practice: developing clinical questions, searching for evidence, analyzing the evidence, and applying the evidence to practice. An additional emphasis is placed on learning to conduct Journal Club discussions of the literature.
Prerequisite: Enrollment in the Physical Therapy Program, PHYT 640.
Typically Offered: SPRING

PHYT 742 SPECIAL TOPICS 1-3 Credit Hours
Typically Offered: FALL

PHYT 750 CLINICAL EDUCATION III 8 Credit Hours
Clinical education courses are an integral part of the DPT curriculum. They allow for the clinical application of physical therapy theories and techniques acquired during lecture and laboratory instruction. As importantly, these courses provide the student with the opportunity to acquire the knowledge, skills and abilities most effectively taught in the clinical setting. The clinical education process is designed to provide the student with periodic clinical exposure at key times throughout the curriculum, thus enabling to student to build clinical practice skills and confidence while being exposed to a variety of clinicians, patients, and facilities. Although each student will have different clinical education experiences, the process is designed to move the student along a continuum from observation, identification and description to analysis, demonstration, and evaluation. Consequently, the student will also progress from requiring fairly constant supervision by clinical instructors to requiring periodic guidance and eventually to entry level practice. The clinical faculty provides the student with clinical practice experience and specialty knowledge. This, coupled with the program curriculum, provides the foundational base of knowledge, skills and abilities necessary to begin entry level practice.
Prerequisite: Enrollment in the Physical Therapy Program, PHYT 550, PHYT 650 and successful completion of all previous curriculum.
Typically Offered: FALL
PHYT 751 CLINICAL EDUCATION IV 8 Credit Hours
Clinical education courses are an integral part of the DPT curriculum. They allow for the clinical application of physical therapy theories and techniques acquired during lecture and laboratory instruction. As importantly, these courses provide the student with the opportunity to acquire the knowledge, skills and abilities most effectively taught in the clinical setting. The clinical education process is designed to provide the student with periodic clinical exposure at key times throughout the curriculum, thus enabling to student to build clinical practice skills and confidence while being exposed to a variety of clinicians, patients, and facilities. Although each student will have different clinical education experiences, the process is designed to move the student along a continuum from observation, identification and description to analysis, demonstration, and evaluation. Consequently, the student will also progress from requiring fairly constant supervision by clinical instructors to requiring periodic guidance and eventually to entry level practice. The clinical faculty provides the student with clinical practice experience and specialty knowledge. This, coupled with the program curriculum, provides the foundational base of knowledge, skills and abilities necessary to begin entry level practice.
Prerequisite: Enrollment in the Physical Therapy Program, PHYT 550, PHYT 650, PHYT 750 and successful completion of all prior curriculum.
Typically Offered: SPRING

PHYT 752 CLINICAL EDUCATION V 8 Credit Hours
Clinical education courses are an integral part of the DPT curriculum. They allow for the clinical application of physical therapy theories and techniques acquired during lecture and laboratory instruction. As importantly, these courses provide the student with the opportunity to acquire the knowledge, skills and abilities most effectively taught in the clinical setting. The clinical education process is designed to provide the student with periodic clinical exposure at key times throughout the curriculum, thus enabling to student to build clinical practice skills and confidence while being exposed to a variety of clinicians, patients, and facilities. Although each student will have different clinical education experiences, the process is designed to move the student along a continuum from observation, identification and description to analysis, demonstration, and evaluation. Consequently, the student will also progress from requiring fairly constant supervision by clinical instructors to requiring periodic guidance and eventually to entry level practice. The clinical faculty provides the student with clinical practice experience and specialty knowledge. This, coupled with the program curriculum, provides the foundational base of knowledge, skills and abilities necessary to begin entry level practice.
Prerequisite: Enrollment in the Physical Therapy Program, PHYT 550, PHYT 650, PHYT 750, PHYT 751 and successful completion of all prior curriculum.
Typically Offered: SPRING

PHYT 942 SPECIAL TOPICS 1-6 Credit Hours
A directed independent study graduate course designed to address a specific and limited area of content in depth. The course is not intended for students who desire an overview or global content course.
Prerequisite: Permission of instructor.
Typically Offered: FALL/SP/SU