

Foundational course descriptions

REHAB 522 Neurophysiological Topics in Rehabilitation Medicine (Fall quarter year 1)

This course reviews traditional physiological concepts related to the nervous, musculoskeletal, and cardiopulmonary systems as a foundation for rehabilitation practice. A main focus of the course will be on neurophysiological topics. Material includes recent advances in research and applicable case studies.

REHAB 544 Functional Anatomy for Rehabilitation of the Extremities (Fall quarter year 1)

This course focuses on the general concepts of anatomy as well as an in-depth focus on the tissues of the upper and lower extremities, including all of the bones and muscles that account for movement and stabilization of the various joints, their functions, origins, insertions, and innervations. Along with the bones and muscles of the extremities, time will be spent on other tissues such as nerves, arteries, veins, ligaments, fascia, and other tissues. This course includes a gross anatomy lab, where you will be able to explore the tissues discussed in lectures on human cadavers.

REHAB 504 Procedures I Basic Physical Examination of the Extremities (Fall quarter year 1)

Rehab 504 develops technical skills and theoretical foundations in the examination of patients from a neuromusculoskeletal perspective. Special emphasis is on systematic examination of the extremities, including observation and posture assessment, testing range of motion and strength, applied anatomy, flexibility, communication during the exam, screening adjacent body regions, and special tests.

REHAB 509 Functional Assessment Skills (Fall and Spring quarters year 1)

Functional Skills Assessment utilizes an active learning approach to provide knowledge, hands-on skills, verbal communication skills and professional behaviors related to patient care activities. Students will learn how to examine physiologic vital signs, to physically assist patients to perform bed mobility and transfer activities. Safety of the health care provider (student) and patient/client is of utmost importance throughout this course. Students will be provided guidance regarding clothing/footwear and management of the physical (furniture, equipment/supplies and personal items) to create a safe clinical care environment. Students will be instructed in and practice proper body mechanics in order to prevent personal injury. Students will gain experience with specialized equipment that reduces lifting and shear forces during mobility activities.

REHAB 533 Diseases and Diagnoses in Rehabilitation (Winter and Spring quarters year 1)

This two-quarter lecture series provides an introductory overview of the most common clinical conditions seen with patients receiving services in occupational therapy, physical therapy and prosthetics and orthotics. Lectures are contributed by faculty members of several departments within the School of Medicine and related health services schools, and by specialists based at affiliated hospitals. The focus of this series is on the clinical presentation of these conditions and their medical and surgical evaluation and management. OT/PT, P&O evaluation and intervention strategies are presented in other curriculum courses, which build on the foundation gained in this coursework. The intent is to gain an understanding of: 1) pathological mechanisms involved in conditions presented, 2) associated clinical features and the condition's natural history, 3) general and specific medical approaches to evaluation and management, 4) strategies for preventing or minimizing additional pathology and disability.

REHAB 545 Functional Anatomy for Rehabilitation of the Spine (Winter quarter year 2)

This course focuses on the general concepts of anatomy as well as an in-depth focus on the anatomy of the spine, including associated vascular and nervous systems. Enhances functional assessments and the improvement of diagnosis and treatment through greater understanding of underlying anatomy.

REHAB 551 Neurobiology in Rehabilitation (Winter quarter year 2)

This course provides an introduction to the structure and function of the human nervous system. In addition, clinical manifestations of dysfunction of major neural elements will be discussed.

REHAB 506 Procedures II Physical Exam of the Spine (Winter quarter year 2)

This course develops technical skills and theoretical foundations in the examination of patients from a neuromusculoskeletal perspective. Special emphasis is on systematic examination of the spine, including observation and posture assessment, functional testing, range of motion, strength, reflexes, applied anatomy, flexibility, medical screening, communication during the examination, screening adjacent body regions, and special tests. The emphasis is on spine examination with integration of systems review and significance of medical problems in this context. Material is presented to enhance skill development as well as to encourage basic clinical reasoning using basic spine clinical cases.

REHAB 548 Kinesiology in Rehabilitation (Spring quarter year 1)

Kinesiology for Rehabilitation is a combined introduction to kinesiological concepts for rehabilitation professionals in Physical Therapy, Occupational Therapy and Prosthetics and Orthotics programs. The course consists of a lecture and laboratory component. Lectures provide the basic concepts and scientific foundations of kinesiology of human movement. Laboratory instruction focuses on practical experience and problem-solving in kinesiology by exploring and developing proficiency in a framework of observation, analysis, and description of normal and pathological human movement.

REHAB 554 Perspectives in Interprofessional Practice (Spring quarter year 1)

The purpose of this course is to provide the learner with a unique opportunity to begin exploration of practice from an interprofessional (IP) perspective. Implicit in this perspective is the belief that effective practice requires collaboration among multiple professionals, in addition to collaboration with the patients/clients and their families. All of the professional preparation programs in the Department of Rehabilitation Medicine and the Department of Speech and Hearing Sciences support IP education, that is, education that “occurs when two or more learn with, from, and about each other in order to improve collaboration and the quality of practice” (Lerner, Magrane, Friedman, 2009). The degree program participating in this course include Doctor of Physical Therapy, Masters of Occupational Therapy, Masters of Prosthetics and Orthotics, and Masters of Science in Speech-Language Pathology (Core and Medical programs).

REHAB 510 Rehabilitation Psychology (Fall quarter year 2)

This course will focus on 1) understanding assimilation of disability, participation in rehabilitation, management of behavior, and maintenance of performance from both the practitioner and patient perspective, 2) the role of the psychologist in the rehabilitation team. Includes case study and case conference materials.