

RHB Rehabilitation Sciences

RHB 701 REHABILITATION THEORIES AND APPLICATION THROUGH THE LIFE SPAN. (3)

Explores the theories common to all the rehabilitation therapies (PT, CD, OT) and that form a foundation for the rehabilitation sciences. Included are theories specific to rehabilitation, attachment, adaptation and resilience, cognition, motor learning, empowerment, loss and grief, psycho-immunology, and the societal responses to stigmatized groups. Theories are applied to rehabilitation practice and research design across the life span. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RHB 702 REHABILITATION SERVICES IN HEALTH CARE SYSTEMS AND DELIVERY. (3)

An analysis of emerging trends in health care systems and delivery with specific emphasis on the impact on the rehabilitation fields. Topics include the financing of health care delivery, organizational changes in response to evolving reimbursement strategies, team functioning, managing change, legislative issues, and the ethical and legal implications of rehabilitation service delivery in the new models. Prereq: Admission to the Rehabilitation Sciences Ph.D. Program or consent of instructor.

RHB 710 NEUROPLASTICITY IN REHABILITATION. (2)

This course will examine the neurological principles utilized by each of the rehabilitation disciplines (PT, OT, SLP) in the context of current research data and determine whether these principles hold up to scientific examination. The format of this course will utilize formal lectures on current theories of neuroplasticity and class discussion on current literature in each of these areas. Case studies will be utilized to apply current theories to practical application within each of the listed disciplines. Prereq: Course in Neuroanatomy, Admission to the Rehabilitation Sciences Doctoral Program or by consent of the instructor.

RHB 712 PHARMACOLOGY IN REHABILITATION. (2-3)

This course will provide the basic science background necessary to understand the effects of medications on patients treated in the rehabilitation setting and their influence on treatment. Topics will include mechanisms of drug action, side effects, and how age and disease alter those mechanisms. The course will also address newly developing drug treatment strategies, including those in clinical trials. Students may either take the course for two credits or complete an additional advanced project for 3 credits, as outlined in the syllabus. The advanced project will enable the more interested student to pursue a topic in greater depth. Prereq: Admission to the Rehabilitation Sciences Doctoral Program or consent of instructor.

RHB 740 PEDIATRIC ASSESSMENT: NEONATES TO ADOLESCENTS. (3)

Provides information regarding the assessment of children, neonates to adolescents, in areas of gross, fine, and oral motor and sensory-perceptual skills. Evaluates various qualitative and quantitative measures of motor development, motor control, and activities of daily living in a pediatric population. Investigates the use of assessment tools and protocols for specific disciplines and interdisciplinary teams including speech/language pathology, and physical and occupational

therapies. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

**RHB 742 INTERVENTION STRATEGIES:
NEONATES TO ADOLESCENTS. (3)**

Investigation of treatment interventions for children with physical disabilities to maximize independence in functional activities. Overview of the treatment and management of children in areas of gross, fine, and oral motor, sensory-perceptual, and communication skills. Development of treatment and management protocols for specific disciplines and inter-disciplinary teams including speech/language pathology, and physical and occupational therapies. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

**RHB 744 ADVANCED TOPICS
IN MOTOR DEVELOPMENT. (3)**

Investigation of motor development, control, and learning and teaching strategies in pediatrics. In depth analysis of movement for specific function tasks and motor dysfunction with identification of both primary and secondary designated problem areas in children with neuro-developmental concerns. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

**RHB 749 DISSERTATION RESEARCH
IN REHABILITATION SCIENCES. (0)**

Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Admission to the Rehabilitation Sciences Ph.D. program.

**RHB 750 AGING AND ADULT
NEUROLOGICAL DISORDERS: ASSESSMENT. (3)**

This interdisciplinary course prepares the student to assess functional abilities in the adult with a neuromotor disorder. The student will learn functional assessment strategies for motor control, cognition, communication, feeding, swallowing, and activities of daily living (ADL) for adults with neuromotor disorders. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of instructor.

**RHB 752 AGING AND ADULT
NEUROLOGICAL DISORDERS: INTERVENTION. (3)**

This course provides an interdisciplinary view of management of the rehabilitation needs of the adult with a neuromotor disorder. The course will concentrate on ways to maximize independence in functional activities and improve the quality of life in this population of adults. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of instructor.

**RHB 760 ASSESSMENT OF
MOVEMENT DYSFUNCTION. (3)**

An introduction to the normal and abnormal movement patterns and its relationship to dysfunction in individuals from birth to advanced age. Topics include theories of motor programming, skill acquisition and maturation; assessment of movement patterns (normal) and abnormal (dysfunction)

and theories of interventions to impact movement strategies. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of instructor.

**RHB 762 TREATMENT OF
MOVEMENT DYSFUNCTION. (3)**

Treatment interventions for individuals to enhance normal and improve or alter abnormal movement patterns serves as the focus of this course. The implications of dysfunction on individuals from birth to advanced age will be examined. Topics include theories of motor programming and how they are impacted via therapeutic measures; skill acquisition and redevelopment following injury or disease; how therapeutic measures impact movement patterns (normal) and abnormal (dysfunction); and an examination of theories of interventions to impact movement strategies. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of instructor.

RHB 767 DISSERTATION RESIDENCY CREDIT. (2)

Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

**RHB 769 RESIDENCE CREDIT
FOR THE DOCTORAL DEGREE. (0-9)**

May be repeated to a maximum of 18 credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program.

**RHB 770 PROFESSIONAL SEMINAR
IN REHABILITATION SCIENCES. (1-3)**

A study of selected topics related to leadership issues in the Rehabilitation Sciences with emphasis on recent research and theory related to higher education and to the communication disorders, occupational therapy, and physical therapy disciplines. Sample topics include research methods and current topics, interdisciplinary issues, health systems, grant writing, teaching and learning in higher education, and the culture of colleges and universities. May be repeated to a maximum of six credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

**RHB 787 TEACHING APPRENTICESHIP
IN REHABILITATION SCIENCES. (1-4)**

Study of instructional methods in higher education including development of syllabi, class presentations, and examinations. Emphasis on classroom dynamics and innovative techniques for instruction. May be repeated to a maximum of four credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program in communication disorders or physical therapy or consent of the instructor.

**RHB 788 INDEPENDENT STUDY
IN REHABILITATION SCIENCES. (1-3)**

Independent study for graduate students interested in specific interdisciplinary topics in Rehabilitation Sciences. May be repeated to a maximum of six credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

**RHB 789 RESEARCH APPRENTICESHIP
IN REHABILITATION SCIENCES. (1-4)**

In-depth study of a discipline specific topic under the direction of a member of the graduate faculty. Emphasis on scientific method including development of a research question, methodology, data collection and analysis. Students will complete a supervised research project during the course. May be repeated to a maximum of four credits. Prereq: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.